



## Product Selector Guide

| Part Number | Memory     |           |                        |     | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     |     | Serial Interfaces         |           |         |                               |      |                  |        | Analog           |              |     |           | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package     |                      |              |
|-------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-----|---------------------------|-----------|---------|-------------------------------|------|------------------|--------|------------------|--------------|-----|-----------|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|-------------|----------------------|--------------|
|             | Flash (KB) | SRAM (KB) | ROM Software Libraries | DMA | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |     | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART | I <sup>2</sup> C | SS/SPI | I <sup>2</sup> S | ADC (10-bit) |     |           |                            |                                   |                                   |                       |                                    |             | Internal Temp Sensor |              |
|             |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP |                           |           |         |                               |      |                  |        |                  | QEI Channels | EPI | ADC Units |                            |                                   |                                   |                       |                                    |             |                      | ADC Channels |
| LM3S101     | 8          | 2         | -                      | -   | 20              | -                             | -   | √                | 2               | √                     | 1        | -                           | -         | -                   | 1   | -                         | -         | -       | -                             | -    | -                | -      | -                | -            | -   | -         | 2/-                        | 2-18                              | -                                 | √                     | I/E                                | 28-pin SOIC |                      |              |
| LM3S102     | 8          | 2         | -                      | -   | 20              | -                             | -   | √                | 2               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | -       | -                             | -    | -                | -      | -                | -            | -   | -         | 1/-                        | 0-18                              | -                                 | √                     | I/E                                | 28-pin SOIC |                      |              |
| LM3S300     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | -   | -         | 3/-                        | 8-36                              | -                                 | √                     | I/E                                | 48-pin LQFP |                      |              |
| LM3S301     | 16         | 2         | -                      | -   | 20              | -                             | √   | √                | 2               | √                     | 1        | 2                           | -         | √                   | 2   | -                         | -         | -       | -                             | -    | 1                | -      | 1                | -            | 1   | 3         | 250K                       | √                                 | 2/-                               | 12-33                 | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S308     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 8         | 500K                       | √                                 | 1/-                               | 5-28                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S310     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | -      | 1                | -            | -   | -         | 3/-                        | 3-36                              | -                                 | √                     | I/E                                | 48-pin LQFP |                      |              |
| LM3S315     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | -      | 1                | -            | 1   | 4         | 250K                       | √                                 | 1/-                               | 7-32                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S316     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 4                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 4         | 250K                       | √                                 | 1/-                               | 3-32                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S317     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 1                | -      | 1                | -            | 1   | 6         | 250K                       | √                                 | 1/-                               | 3-30                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S328     | 16         | 4         | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 8         | 500K                       | √                                 | -/-                               | 7-28                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S600     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | -   | -         | 3/-                        | 8-36                              | -                                 | √                     | I/E                                | 48-pin LQFP |                      |              |
| LM3S601     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | -   | -         | 3/-                        | 0-36                              | -                                 | √                     | I/E                                | 48-pin LQFP |                      |              |
| LM3S608     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 8         | 500K                       | √                                 | 1/-                               | 5-28                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S610     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 2         | 500K                       | √                                 | -/-                               | 6-34                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S611     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 4         | 500K                       | √                                 | -/-                               | 4-32                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S612     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 2         | 500K                       | √                                 | 1/-                               | 7-34                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S613     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 4                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 4         | 500K                       | √                                 | 1/-                               | 3-32                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S615     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 2         | 500K                       | √                                 | 3/-                               | 0-34                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S617     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 2                | -      | 1                | -            | 1   | 6         | 500K                       | √                                 | 1/-                               | 1-30                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S618     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 4   | 1                         | -         | -       | -                             | -    | 2                | -      | 1                | -            | 1   | 6         | 500K                       | √                                 | 1/-                               | 0-30                  | -                                  | √           | I/E                  | 48-pin LQFP  |
| LM3S628     | 32         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 4   | -                         | -         | -       | -                             | -    | 2                | 1      | 1                | -            | 1   | 8         | 1M                         | √                                 | -/-                               | 9-28                  | -                                  | √           | I/E                  | 48-pin LQFP  |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).

<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C

<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Product Selector Guide (Continued)

| Part Number | Memory     |           |                        |     | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     |     | Serial Interfaces         |           |         |                               |      |                  |         | Analog           |              |     | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package |                              |                              |
|-------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-----|---------------------------|-----------|---------|-------------------------------|------|------------------|---------|------------------|--------------|-----|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|------------------------------|------------------------------|
|             | Flash (KB) | SRAM (KB) | ROM Software Libraries | DMA | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |     | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART | I <sup>2</sup> C | SSI/SPI | I <sup>2</sup> S | ADC (10-bit) |     |                            |                                   |                                   |                       |                                    |         |                              |                              |
|             |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP |                           |           |         |                               |      |                  |         |                  | QEI Channels | EPI |                            |                                   |                                   |                       |                                    |         | ADC Units                    | ADC Channels                 |
| LM3S800     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | -            | -   | -                          | 3/-                               | 8-36                              | -                     | √                                  | I/E     | 48-pin LQFP                  |                              |
| LM3S801     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | -       | -                             | -    | 2                | 1       | 1                | -            | -   | -                          | -                                 | 3/-                               | 0-36                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S808     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | 1            | 8   | 500K                       | √                                 | 1/-                               | 5-28                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S811     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | 1            | 4   | 500K                       | √                                 | 1/-                               | 1-32                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S812     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 6   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | 1            | 2   | 250K                       | √                                 | 1/-                               | 7-34                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S815     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | 1            | 2   | 500K                       | √                                 | 3/-                               | 0-34                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S817     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | 2    | -                | 1       | -                | 1            | 6   | 1M                         | √                                 | 1/-                               | 1-30                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S818     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 4   | 1                         | -         | -       | -                             | 2    | -                | 1       | -                | 1            | 6   | 1M                         | √                                 | 1/-                               | 0-30                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S828     | 64         | 8         | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | 1            | 8   | 1M                         | √                                 | -/-                               | 7-28                  | -                                  | √       | I/E                          | 48-pin LQFP                  |
| LM3S1110    | 64         | 16        | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | -       | -                             | 2    | -                | 1       | -                | -            | -   | -                          | 2/-                               | 20-41                             | √                     | √                                  | I/E     | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S1133    | 64         | 16        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 2                           | -         | √                   | 8   | -                         | -         | -       | -                             | 3    | 1                | 2       | -                | 1            | 2   | 250K                       | √                                 | 1/-                               | 9-44                  | √                                  | √       | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S1138    | 64         | 16        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | 3    | 2                | 2       | -                | 1            | 8   | 1M                         | √                                 | 3/-                               | 9-46                  | √                                  | √       | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S1150    | 64         | 16        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | -       | -                             | 3    | 1                | 2       | -                | -            | -   | -                          | 3/-                               | 7-52                              | √                     | √                                  | I/E     | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S1162    | 64         | 16        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | -       | -                             | 3    | 1                | 2       | -                | 1            | 2   | 500K                       | √                                 | 3/-                               | 4-46                  | √                                  | √       | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S1165    | 64         | 16        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 8   | -                         | -         | -       | -                             | 3    | 1                | 2       | -                | 1            | 4   | 500K                       | √                                 | 1/-                               | 4-43                  | √                                  | √       | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S1332    | 96         | 16        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8   | -                         | -         | -       | -                             | 2    | -                | 1       | -                | 1            | 3   | 250K                       | √                                 | 3/-                               | 29-57                 | √                                  | √       | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S1435    | 96         | 32        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 4   | -                         | -         | -       | -                             | 2    | 1                | 1       | -                | 1            | 2   | 500K                       | √                                 | 1/-                               | 21-46                 | √                                  | √       | I/E                          | 100-pin LQFP<br>108-ball BGA |

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|-------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-----|---------------------------|-----------|---------|-------------------------------|------|------------------|---------|------------------|--------------|-----|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|-----------|------------------------------|--------------------------------|
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|             |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP |                           |           |         |                               |      |                  |         |                  | QEI Channels | EPI |                            |                                   |                                   |                       |                                    |         | ADC Units | ADC Channels                 | ADC Speed (samples per second) |
| LM3S1439    | 96         | 32        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | -       | -                             | -    | 2                | 1       | 2                | -            | 1   | 4                          | 500K                              | √                                 | 1/-                   | 14-52                              | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1512    | 96         | 64        | -                      | -   | 25              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8   | 1                         | -         | -       | -                             | -    | 3                | 2       | 2                | -            | 1   | 2                          | 250K                              | √                                 | 3/-                   | 15-58                              | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1538    | 96         | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8   | 1                         | -         | -       | -                             | -    | 3                | 2       | 2                | -            | 1   | 8                          | 500K                              | √                                 | -/-                   | 9-43                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1601    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8   | -                         | -         | -       | -                             | -    | 3                | 2       | 2                | -            | -   | -                          | -                                 | 2/-                               | 23-60                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |
| LM3S1607    | 128        | 32        | √                      | √   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | -       | -                             | -    | 3                | 2       | 1                | -            | 1   | 8                          | 500K                              | √                                 | -/-                   | 0-33                               | √       | √         | I                            | 64-pin LQFP                    |
| LM3S1608    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8   | -                         | -         | -       | -                             | -    | 2                | 2       | 2                | -            | 1   | 8                          | 500K                              | √                                 | 2/-                   | 17-52                              | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1620    | 128        | 32        | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 4   | 1                         | -         | -       | -                             | -    | 2                | 1       | 2                | -            | -   | -                          | -                                 | 3/-                               | 11-52                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |
| LM3S1625    | 128        | 32        | √                      | √   | 50              | -                             | √   | √                | 4               | √                     | 1        | 4                           | -         | √                   | 4   | -                         | -         | -       | -                             | -    | 1                | 2       | 1                | -            | 1   | 6                          | 500K                              | √                                 | 1/-                   | 0-33                               | -       | √         | I                            | 64-pin LQFP                    |
| LM3S1626    | 128        | 32        | √                      | √   | 50              | -                             | √   | √                | 4               | √                     | 1        | 4                           | -         | √                   | 4   | 1                         | -         | -       | -                             | -    | 2                | 1       | 1                | -            | 1   | 6                          | 500K                              | √                                 | -/-                   | 0-33                               | -       | √         | I                            | 64-pin LQFP                    |
| LM3S1627    | 128        | 32        | √                      | √   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 4   | 1                         | -         | -       | -                             | -    | 2                | 1       | 1                | -            | 1   | 4                          | 500K                              | √                                 | -/-                   | 0-33                               | -       | √         | I                            | 64-pin LQFP                    |
| LM3S1635    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 8   | -                         | -         | -       | -                             | -    | 3                | 2       | 2                | -            | 1   | 4                          | 500K                              | √                                 | 2/-                   | 12-56                              | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1637    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | -       | -                             | -    | 3                | 1       | 1                | -            | 1   | 4                          | 1M                                | √                                 | 1/-                   | 7-43                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1751    | 128        | 64        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 4                           | -         | √                   | 6   | -                         | -         | -       | -                             | -    | 3                | 1       | 2                | -            | 1   | 4                          | 500K                              | √                                 | 1/-                   | 21-56                              | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |
| LM3S1776    | 128        | 64        | √                      | √   | 50              | -                             | √   | √                | 3               | √                     | 1        | 8                           | -         | √                   | 2   | -                         | -         | -       | -                             | -    | 1                | 1       | 1                | -            | 1   | 6                          | 1M                                | √                                 | -/-                   | 1-33                               | √       | √         | I                            | 64-pin LQFP                    |
| LM3S1850    | 256        | 32        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | -       | -                             | -    | 2                | 1       | 1                | -            | -   | -                          | -                                 | 3/-                               | 17-56                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |
| LM3S1911    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8   | -                         | -         | -       | -                             | -    | 3                | 2       | 2                | -            | -   | -                          | -                                 | 2/-                               | 23-60                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.  
<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).  
<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.  
<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C  
<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Product Selector Guide (Continued)

| Part Number | Memory     |           |                        |     | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     | Serial Interfaces |                           |           |         |                               |      | Analog           |         |                  | Internal Temp Sensor | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package |              |                              |           |
|-------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-------------------|---------------------------|-----------|---------|-------------------------------|------|------------------|---------|------------------|----------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|--------------|------------------------------|-----------|
|             | Flash (KB) | SRAM (KB) | ROM Software Libraries | DMA | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |                   | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART | I <sup>2</sup> C | SSI/SPI | I <sup>2</sup> S |                      |                            |                                   |                                   |                       |                                    |         | ADC (10-bit) |                              |           |
|             |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP               |                           |           |         |                               |      |                  |         |                  |                      |                            |                                   |                                   |                       |                                    |         | QEI Channels | EPI                          | ADC Units |
| LM3S1918    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | 2                             | 2    | 2                | -       | 1                | 8                    | 500K                       | √                                 | 2/-                               | 17-52                 | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S1937    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 4                 | -                         | -         | -       | 2                             | 1    | 1                | -       | 1                | 4                    | 1M                         | √                                 | 1/-                               | 27-56                 | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S1958    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | 3                             | 2    | 2                | -       | 1                | 8                    | 1M                         | √                                 | -/-                               | 21-52                 | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S1960    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 8                 | 2                         | -         | -       | 3                             | 2    | 2                | -       | -                | -                    | -                          | -                                 | 3/-                               | 7-60                  | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S1968    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 4                 | 2                         | -         | -       | 3                             | 2    | 2                | -       | 1                | 8                    | 1M                         | √                                 | 3/-                               | 5-52                  | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2110    | 64         | 16        | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 4                 | -                         | -         | 1       | 1                             | 1    | 1                | -       | -                | -                    | -                          | -                                 | 3/-                               | 11-40                 | -                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2139    | 64         | 16        | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6                 | -                         | -         | 1       | 2                             | 1    | 1                | -       | 1                | 4                    | 250K                       | √                                 | 3/-                               | 26-56                 | -                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2276    | 64         | 32        | √                      | √   | 50              | -                             | √   | √                | 3               | √                     | 1        | 8                           | -         | √                   | 1                 | -                         | -         | 1       | 1                             | 1    | 1                | -       | 1                | 6                    | 1M                         | √                                 | -/-                               | 0-33                  | √                                  | √       | I            | 64-pin LQFP                  |           |
| LM3S2410    | 96         | 32        | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 4                 | -                         | -         | 1       | 1                             | -    | 1                | -       | -                | -                    | -                          | -                                 | 2/-                               | 37-60                 | -                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2412    | 96         | 32        | -                      | -   | 25              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 4                 | -                         | -         | 1       | 2                             | 1    | 1                | -       | 1                | 3                    | 250K                       | √                                 | 2/-                               | 20-49                 | -                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2432    | 96         | 32        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 4                 | -                         | -         | 1       | 2                             | 1    | 1                | -       | 1                | 3                    | 250K                       | √                                 | 2/-                               | 5-34                  | -                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2533    | 96         | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6                 | -                         | -         | 1       | 2                             | 1    | 1                | -       | 1                | 3                    | 250K                       | √                                 | 3/-                               | 11-48                 | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2601    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | 1       | 3                             | 2    | 2                | -       | -                | -                    | -                          | -                                 | 2/-                               | 21-60                 | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2608    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | 1       | 2                             | 2    | 2                | -       | 1                | 8                    | 500K                       | √                                 | 2/-                               | 15-52                 | √                                  | √       | I/E          | 100-pin LQFP<br>108-ball BGA |           |
| LM3S2616    | 128        | 16        | √                      | √   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | -                 | 1                         | -         | -       | 1                             | 1    | -                | -       | 1                | 6                    | 1M                         | √                                 | 2/-                               | 1-33                  | √                                  | √       | I            | 64-pin LQFP                  |           |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.  
<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).  
<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.  
<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C  
<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Product Selector Guide (Continued)

| Part Number          | Memory     |           |                        |   | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     | Serial Interfaces |                           |           |         |                               |      | Analog           |         |                  | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package |              |                 |              |                                |                              |              |
|----------------------|------------|-----------|------------------------|---|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-------------------|---------------------------|-----------|---------|-------------------------------|------|------------------|---------|------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|--------------|-----------------|--------------|--------------------------------|------------------------------|--------------|
|                      | Flash (KB) | SRAM (KB) | ROM Software Libraries |   | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |                   | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART | I <sup>2</sup> C | SSI/SPi | I <sup>2</sup> S |                            |                                   |                                   |                       |                                    |         | ADC (10-bit) |                 |              |                                |                              |              |
|                      |            |           | DMA                    |   |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP               |                           |           |         |                               |      |                  |         |                  |                            |                                   |                                   |                       |                                    |         | QEI Channels | ADC Units       | ADC Channels | ADC Speed (samples per second) | Internal Temp Sensor         |              |
| LM3S2620             | 128        | 32        | -                      | - | 25              | -                             | √   | √                | 4               | √                     | 1        | 4                           | -         | √                   | 6                 | 1                         | -         | -       | -                             | 2    | -                | 1       | 1                | 1                          | -                                 | -                                 | -                     | -                                  | 3/-     | 12-52        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2637             | 128        | 32        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6                 | -                         | -         | -       | 1                             | -    | 2                | 1       | 1                | -                          | 1                                 | 4                                 | 500K                  | √                                  | 3/-     | 15-46        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2651             | 128        | 32        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | 4                           | -         | √                   | 6                 | -                         | -         | -       | 1                             | -    | 3                | 1       | 2                | -                          | 1                                 | 4                                 | 500K                  | √                                  | 1/-     | 16-53        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2671             | 128        | 32        | √                      | √ | 50              | -                             | √   | √                | 4               | √                     | 1        | 2                           | -         | √                   | 2                 | -                         | -         | -       | 1                             | -    | 1                | 1       | 1                | -                          | 1                                 | 4                                 | 500K                  | √                                  | 3/-     | 3-33         | -               | √            | I                              | 64-pin LQFP                  |              |
| LM3S2678             | 128        | 32        | √                      | √ | 50              | -                             | √   | √                | 4               | √                     | 1        | 4                           | -         | √                   | 2                 | 1                         | -         | -       | 1                             | -    | 1                | -       | 1                | -                          | 1                                 | 8                                 | 500K                  | √                                  | -/-     | 1-33         | -               | √            | I                              | 64-pin LQFP                  |              |
| LM3S2730             | 128        | 64        | -                      | - | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 4                 | -                         | -         | -       | 1                             | -    | 1                | -       | 1                | -                          | -                                 | -                                 | -                     | 2/-                                | 37-60   | -            | √               | I/E          | 100-pin LQFP<br>108-ball BGA   |                              |              |
| LM3S2739             | 128        | 64        | -                      | - | 50              | -                             | √   | √                | 3               | √                     | 1        | 6                           | -         | √                   | 6                 | 1                         | -         | -       | 1                             | -    | 2                | 1       | 1                | -                          | 1                                 | 4                                 | 500K                  | √                                  | 1/-     | 20-56        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2776             | 128        | 64        | √                      | √ | 50              | -                             | √   | √                | 3               | √                     | 1        | 8                           | -         | √                   | 1                 | -                         | -         | -       | 1                             | -    | 1                | 1       | 1                | -                          | 1                                 | 6                                 | 1M                    | √                                  | -/-     | 0-33         | √               | √            | I                              | 64-pin LQFP                  |              |
| LM3S2793<br>LM3S2B93 | 128<br>256 | 64<br>96  | √                      | √ | 80              | √                             | √   | √                | 4               | √                     | 2        | 8                           | 4         | √                   | 8                 | 2                         | √         | -       | -                             | 2    | -                | 3       | 2                | 2                          | √                                 | 2                                 | 16                    | 1M                                 | √       | 3/16         | 67 <sup>e</sup> | √            | √                              | I                            | 100-pin LQFP |
| LM3S2911             | 256        | 64        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | 1                             | -    | 3                | 2       | 2                | -                          | -                                 | -                                 | -                     | 2/-                                | 21-60   | √            | √               | I/E          | 100-pin LQFP<br>108-ball BGA   |                              |              |
| LM3S2918             | 256        | 64        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | 1                             | -    | 2                | 2       | 2                | -                          | 1                                 | 8                                 | 500K                  | √                                  | 2/-     | 15-52        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2939             | 256        | 64        | -                      | - | 50              | -                             | √   | √                | 3               | √                     | 1        | 4                           | -         | √                   | 4                 | 1                         | -         | -       | 1                             | -    | 3                | 1       | 1                | -                          | 1                                 | 3                                 | 500K                  | √                                  | 3/-     | 18-57        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2948             | 256        | 64        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | 2                             | -    | 3                | 1       | 2                | -                          | 1                                 | 8                                 | 1M                    | √                                  | 3/-     | 12-52        | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |
| LM3S2950             | 256        | 64        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6                 | 1                         | -         | -       | 2                             | -    | 3                | 1       | 2                | -                          | -                                 | -                                 | -                     | 3/-                                | 10-60   | √            | √               | I/E          | 100-pin LQFP<br>108-ball BGA   |                              |              |
| LM3S2965             | 256        | 64        | -                      | - | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6                 | 2                         | -         | -       | 2                             | -    | 3                | 2       | 2                | -                          | 1                                 | 4                                 | 1M                    | √                                  | 3/-     | 3-56         | √               | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |              |

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<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).

<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C

<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Product Selector Guide (Continued)

| Part Number          | Memory     |           |                        |     | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     | Serial Interfaces |                           |           |         |                               |       | Analog           |         |                  | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package |                 |     |           |              |                                |
|----------------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-------------------|---------------------------|-----------|---------|-------------------------------|-------|------------------|---------|------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|-----------------|-----|-----------|--------------|--------------------------------|
|                      | Flash (KB) | SRAM (KB) | ROM Software Libraries | DMA | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |                   | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART  | I <sup>2</sup> C | SSI/SPI | I <sup>2</sup> S |                            |                                   |                                   |                       |                                    |         | ADC (10-bit)    |     |           |              |                                |
|                      |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP               |                           |           |         |                               |       |                  |         |                  |                            |                                   |                                   |                       |                                    |         | QEI Channels    | EPI | ADC Units | ADC Channels | ADC Speed (samples per second) |
| LM3S3651             | 128        | 32        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 4               | ✓                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | O/H/D                         | 1     | 1                | 1       | -                | 1                          | 4                                 | 500K                              | ✓                     | 2/-                                | 0-33    | ✓               | ✓   | I         | 64-pin LQFP  |                                |
| LM3S3739             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 4               | ✓                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | H/D                           | 3     | 2                | 2       | -                | 1                          | 8                                 | 500K                              | ✓                     | 2/-                                | 14-61   | ✓               | ✓   | I         | 100-pin LQFP |                                |
| LM3S3748             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 4               | ✓                     | 1        | 8                           | -         | ✓                   | 8                 | 1                         | -         | -       | H/D                           | 2     | 2                | 2       | -                | 1                          | 8                                 | 1M                                | ✓                     | 2/-                                | 3-61    | ✓               | ✓   | I         | 100-pin LQFP |                                |
| LM3S3749             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 4               | ✓                     | 1        | 8                           | -         | ✓                   | 7                 | 1                         | -         | -       | H/D                           | 3     | 2                | 2       | -                | 1                          | 8                                 | 1M                                | ✓                     | 2/-                                | 0-61    | ✓               | ✓   | I         | 100-pin LQFP |                                |
| LM3S5632             | 128        | 32        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 5                 | -                         | -         | -       | 1                             | H/D   | 2                | 2       | 1                | -                          | 1                                 | 6                                 | 500K                  | ✓                                  | -/-     | 1-33            | ✓   | ✓         | I            | 64-pin LQFP                    |
| LM3S5652             | 128        | 32        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 6                 | -                         | -         | -       | 1                             | O/H/D | 1                | 1       | 1                | -                          | 1                                 | 6                                 | 500K                  | ✓                                  | 1/-     | 0-33            | ✓   | ✓         | I            | 64-pin LQFP                    |
| LM3S5662             | 128        | 32        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | 6                           | -         | ✓                   | 5                 | -                         | -         | -       | 1                             | O/H/D | 1                | -       | 1                | -                          | 1                                 | 4                                 | 500K                  | ✓                                  | -/-     | 0-33            | ✓   | ✓         | I            | 64-pin LQFP                    |
| LM3S5732             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 5                 | -                         | -         | -       | 1                             | H/D   | 2                | 2       | 1                | -                          | 1                                 | 6                                 | 500K                  | ✓                                  | -/-     | 1-33            | ✓   | ✓         | I            | 64-pin LQFP                    |
| LM3S5737             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 3                 | -                         | -         | -       | 1                             | H/D   | 1                | 2       | 2                | -                          | 1                                 | 8                                 | 500K                  | ✓                                  | -/-     | 27-61           | ✓   | ✓         | I            | 100-pin LQFP                   |
| LM3S5739             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 4               | ✓                     | 1        | -                           | -         | -                   | 8                 | -                         | -         | -       | 1                             | H/D   | 3                | 2       | 2                | -                          | 1                                 | 8                                 | 500K                  | ✓                                  | 2/-     | 12-61           | ✓   | ✓         | I            | 100-pin LQFP                   |
| LM3S5747             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | 6                           | -         | ✓                   | 2                 | -                         | -         | -       | 1                             | H/D   | 1                | 1       | 1                | -                          | 1                                 | 8                                 | 500K                  | ✓                                  | -/-     | 27-61           | ✓   | ✓         | I            | 100-pin LQFP                   |
| LM3S5749             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 4               | ✓                     | 1        | 8                           | -         | ✓                   | 5                 | 1                         | -         | -       | 2                             | H/D   | 2                | 2       | 2                | -                          | 1                                 | 8                                 | 1M                    | ✓                                  | 2/-     | 0-61            | ✓   | ✓         | I            | 100-pin LQFP                   |
| LM3S5752             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 6                 | -                         | -         | -       | 1                             | O/H/D | 1                | 1       | 1                | -                          | 1                                 | 6                                 | 500K                  | ✓                                  | 1/-     | 0-33            | ✓   | ✓         | I            | 64-pin LQFP                    |
| LM3S5762             | 128        | 64        | ✓                      | ✓   | 50              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | 6                           | -         | ✓                   | 5                 | -                         | -         | -       | 1                             | O/H/D | 1                | -       | 1                | -                          | 1                                 | 4                                 | 500K                  | ✓                                  | -/-     | 0-33            | ✓   | ✓         | I            | 64-pin LQFP                    |
| LM3S5791<br>LM3S5B91 | 128<br>256 | 64<br>96  | ✓                      | ✓   | 80              | ✓                             | ✓   | ✓                | 4               | ✓                     | 2        | 8                           | 4         | ✓                   | 8                 | 2                         | ✓         | -       | 2                             | O/H/D | 3                | 2       | 2                | ✓                          | 2                                 | 16                                | 1M                    | ✓                                  | 3/16    | 72 <sup>e</sup> | -   | ✓         | I            | 100-pin LQFP                   |
| LM3S6100             | 64         | 16        | -                      | -   | 25              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 4                 | -                         | -         | ✓       | -                             | -     | 1                | -       | 1                | -                          | -                                 | -                                 | -                     | -                                  | 1/-     | 10-30           | -   | ✓         | I/E          | 100-pin LQFP<br>108-ball BGA   |
| LM3S6110             | 64         | 16        | -                      | -   | 25              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | 2                           | -         | ✓                   | 4                 | -                         | -         | ✓       | -                             | -     | 1                | -       | 1                | -                          | -                                 | -                                 | -                     | -                                  | 3/-     | 8-35            | -   | ✓         | I/E          | 100-pin LQFP<br>108-ball BGA   |
| LM3S6420             | 96         | 32        | -                      | -   | 25              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 4                 | -                         | -         | ✓       | -                             | -     | 1                | -       | 1                | -                          | -                                 | -                                 | -                     | -                                  | 2/-     | 23-46           | -   | ✓         | I/E          | 100-pin LQFP<br>108-ball BGA   |
| LM3S6422             | 96         | 32        | -                      | -   | 25              | -                             | ✓   | ✓                | 3               | ✓                     | 1        | -                           | -         | -                   | 4                 | -                         | -         | ✓       | -                             | -     | 1                | -       | 1                | -                          | 1                                 | 2                                 | 250K                  | ✓                                  | 2/-     | 12-34           | -   | ✓         | I/E          | 100-pin LQFP<br>108-ball BGA   |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.  
<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).  
<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.  
<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C  
<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Product Selector Guide (Continued)

| Part Number | Memory     |           |                        |     | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     |     | Serial Interfaces         |           |         |                               |      |                  |         | Analog           |              |     | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package |           |              |                                |                              |                              |
|-------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-----|---------------------------|-----------|---------|-------------------------------|------|------------------|---------|------------------|--------------|-----|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|-----------|--------------|--------------------------------|------------------------------|------------------------------|
|             | Flash (KB) | SRAM (KB) | ROM Software Libraries | DMA | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |     | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART | I <sup>2</sup> C | SSI/SPI | I <sup>2</sup> S | ADC (10-bit) |     |                            |                                   |                                   |                       |                                    |         |           |              |                                |                              |                              |
|             |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP |                           |           |         |                               |      |                  |         |                  | QEI Channels | EPI |                            |                                   |                                   |                       |                                    |         | ADC Units | ADC Channels | ADC Speed (samples per second) | Internal Temp Sensor         |                              |
| LM3S6432    | 96         | 32        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 2                           | -         | √                   | 4   | -                         | -         | √       | -                             | -    | -                | 2       | 1                | 1            | -   | 1                          | 3                                 | 250K                              | √                     | 2/-                                | 14-43   | -         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6537    | 96         | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6   | -                         | -         | √       | √                             | -    | -                | -       | 2                | 1            | 1   | -                          | 1                                 | 4                                 | 500K                  | √                                  | 2/-     | 6-41      | √            | √                              | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S6610    | 128        | 32        | -                      | -   | 25              | -                             | √   | √                | 4               | √                     | 1        | 4                           | -         | √                   | 6   | 1                         | -         | √       | -                             | -    | -                | 3       | 1                | 1            | -   | -                          | -                                 | -                                 | -                     | 3/-                                | 5-46    | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6611    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 3       | 2                | 2            | -   | -                          | -                                 | -                                 | 2/-                   | 10-46                              | √       | √         | I/E          | 100-pin LQFP<br>108-ball BGA   |                              |                              |
| LM3S6618    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 2       | 2                | 2            | -   | 1                          | 8                                 | 500K                              | √                     | 2/-                                | 5-38    | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6633    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 2       | 1                | 1            | -   | 1                          | 3                                 | 500K                              | √                     | 1/-                                | 15-41   | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6637    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 2       | 1                | 1            | -   | 1                          | 4                                 | 1M                                | √                     | 3/-                                | 11-41   | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6730    | 128        | 64        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | -                           | -         | -                   | 4   | -                         | -         | √       | -                             | -    | -                | 1       | -                | 1            | -   | -                          | -                                 | -                                 | -                     | 2/-                                | 23-46   | -         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6753    | 128        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 4   | 1                         | -         | √       | √                             | -    | -                | -       | 2                | 1            | 1   | -                          | 1                                 | 4                                 | 500K                  | √                                  | 2/-     | 5-41      | √            | √                              | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S6911    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 3       | 2                | 2            | -   | -                          | -                                 | -                                 | -                     | 2/-                                | 10-46   | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6918    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 2       | 2                | 2            | -   | 1                          | 8                                 | 500K                              | √                     | 2/-                                | 5-38    | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6938    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | -    | -                | 3       | 1                | 1            | -   | 1                          | 8                                 | 1M                                | √                     | 3/-                                | 7-38    | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |
| LM3S6950    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | √       | √                             | -    | -                | -       | 3                | 1            | 2   | -                          | -                                 | -                                 | -                     | -                                  | 3/-     | 1-46      | √            | √                              | I/E                          | 100-pin LQFP<br>108-ball BGA |
| LM3S6952    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 3               | √                     | 1        | 4                           | -         | √                   | 4   | 1                         | -         | √       | -                             | -    | -                | 3       | 1                | 1            | -   | 1                          | 3                                 | 500K                              | √                     | 3/-                                | 6-43    | √         | √            | I/E                            | 100-pin LQFP<br>108-ball BGA |                              |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.  
<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).  
<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.  
<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C  
<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Product Selector Guide (Continued)

| Part Number | Memory     |           |                        |     | Core            |                               |     |                  | Timers          |                       |          |                             |           |                     |     | Serial Interfaces         |           |         |                               |      |                  |         | Analog           |              |     | Internal Temp Sensor | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package |           |                              |                                |  |  |
|-------------|------------|-----------|------------------------|-----|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----------|---------------------|-----|---------------------------|-----------|---------|-------------------------------|------|------------------|---------|------------------|--------------|-----|----------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|---------|-----------|------------------------------|--------------------------------|--|--|
|             | Flash (KB) | SRAM (KB) | ROM Software Libraries | DMA | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |           |                     |     | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART | I <sup>2</sup> C | SSI/SPI | I <sup>2</sup> S | ADC (10-bit) |     |                      |                            |                                   |                                   |                       |                                    |         |           |                              |                                |  |  |
|             |            |           |                        |     |                 |                               |     |                  |                 |                       |          | PWM                         | PWM Fault | Dead-Band Generator | CCP |                           |           |         |                               |      |                  |         |                  | QEI Channels | EPI |                      |                            |                                   |                                   |                       |                                    |         | ADC Units | ADC Channels                 | ADC Speed (samples per second) |  |  |
| LM3S6965    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 4   | 2                         | -         | √       | -                             | -    | -                | 3       | 2                | 1            | -   | 1                    | 4                          | 1M                                | √                                 | 2/-                   | 0-42                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8530    | 96         | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | √       | -                             | 3    | -                | 1       | 1                | 2            | -   | -                    | -                          | -                                 | -                                 | -/-                   | 8-35                               | -       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8538    | 96         | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 4   | -                         | -         | √       | √                             | 1    | -                | 2       | 1                | 1            | -   | 1                    | 8                          | 1M                                | √                                 | 3/-                   | 7-36                               | -       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8630    | 128        | 32        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | √       | -                             | 1    | -                | 2       | 1                | 1            | -   | -                    | -                          | -                                 | -/-                               | 10-31                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |  |  |
| LM3S8730    | 128        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | √       | √                             | 1    | -                | 2       | 1                | 1            | -   | -                    | -                          | -                                 | -/-                               | 11-32                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |  |  |
| LM3S8733    | 128        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 4   | -                         | -         | √       | -                             | 1    | -                | 2       | 1                | 1            | -   | 1                    | 4                          | 500K                              | √                                 | 3/-                   | 5-35                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8738    | 128        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | -                             | 1    | -                | 3       | 1                | 2            | -   | 1                    | 8                          | 500K                              | √                                 | 1/-                   | 4-38                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8930    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | √       | -                             | 2    | -                | 1       | 1                | 1            | -   | -                    | -                          | -                                 | -/-                               | 13-34                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |  |  |
| LM3S8933    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 4   | -                         | -         | √       | √                             | 1    | -                | 2       | 1                | 1            | -   | 1                    | 4                          | 1M                                | √                                 | 3/-                   | 6-36                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8938    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 6   | -                         | -         | √       | √                             | 1    | -                | 3       | 2                | 1            | -   | 1                    | 8                          | 1M                                | √                                 | 3/-                   | 3-38                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8962    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 2   | 2                         | -         | √       | √                             | 1    | -                | 2       | 1                | 1            | -   | 1                    | 4                          | 500K                              | √                                 | 1/-                   | 5-42                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S8970    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | -                           | -         | -                   | 2   | -                         | -         | √       | √                             | 3    | -                | 2       | 1                | 2            | -   | -                    | -                          | -                                 | -/-                               | 17-46                 | √                                  | √       | I/E       | 100-pin LQFP<br>108-ball BGA |                                |  |  |
| LM3S8971    | 256        | 64        | -                      | -   | 50              | -                             | √   | √                | 4               | √                     | 1        | 6                           | -         | √                   | 6   | 1                         | -         | √       | -                             | 1    | -                | 1       | -                | 1            | -   | 1                    | 8                          | 1M                                | √                                 | 1/-                   | 4-38                               | √       | √         | I/E                          | 100-pin LQFP<br>108-ball BGA   |  |  |
| LM3S9790    | 128        | 64        | √                      | √   | 80              | √                             | √   | √                | 4               | √                     | 2        | -                           | -         | -                   | 8   | -                         | √         | √       | -                             | 2    | O/H/D            | 3       | 2                | 2            | √   | 2                    | 16                         | 1M                                | √                                 | 3/16                  | 60 <sup>e</sup>                    | √       | √         | I                            | 100-pin LQFP                   |  |  |
| LM3S9B90    | 256        | 96        |                        |     |                 |                               |     |                  |                 |                       |          |                             |           |                     |     |                           |           |         |                               |      |                  |         |                  |              |     |                      |                            |                                   |                                   |                       |                                    |         |           |                              |                                |  |  |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.  
<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).  
<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.  
<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C  
<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



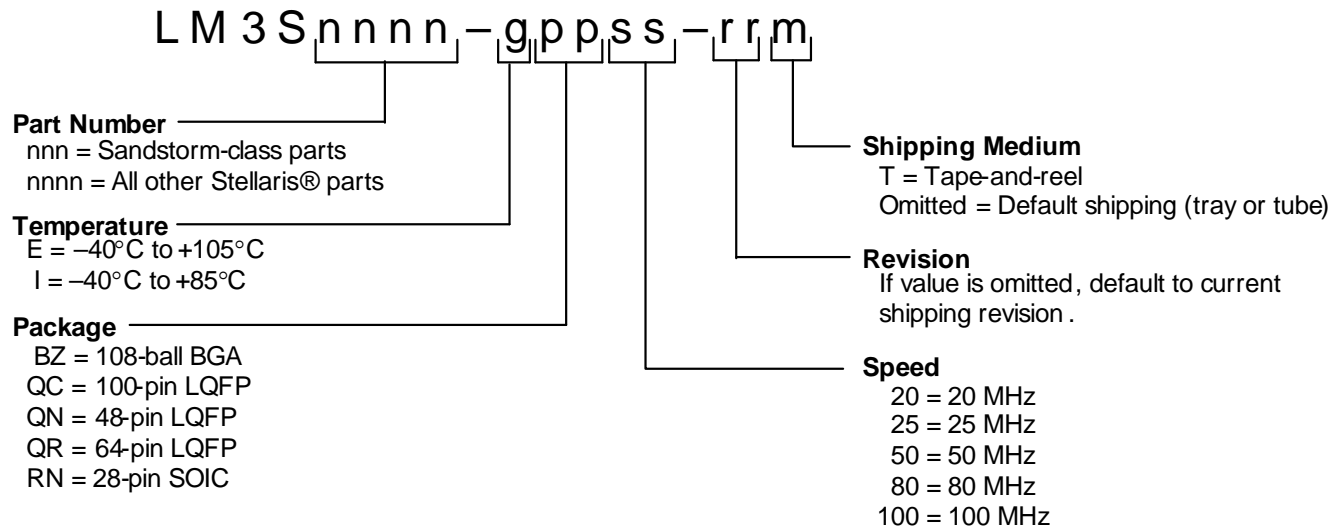
## Product Selector Guide (Continued)

| Part Number | Memory     |           |                        |           | Core            |                               |     |                  | Timers          |                       |          |                             |     |              |     | Serial Interfaces |                           |           |         |                               |       |                  | Analog  |                  |              | Analog/Digital Comparators | GPIOs <sup>c</sup> (5-V tolerant) | Battery-Backed Hibernation Module | LDO Voltage Regulator | Operating Temperature <sup>d</sup> | Package         |                                |                      |   |              |
|-------------|------------|-----------|------------------------|-----------|-----------------|-------------------------------|-----|------------------|-----------------|-----------------------|----------|-----------------------------|-----|--------------|-----|-------------------|---------------------------|-----------|---------|-------------------------------|-------|------------------|---------|------------------|--------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|-----------------|--------------------------------|----------------------|---|--------------|
|             | Flash (KB) | SRAM (KB) | ROM Software Libraries |           | Max Speed (MHz) | Internal Precision Oscillator | MPU | SysTick (24-bit) | General-Purpose | Real-Time Clock (RTC) | Watchdog | Motion Control <sup>a</sup> |     |              |     |                   | Ethernet (10/100 MAC+PHY) | IEEE 1588 | CAN MAC | USB <sup>b</sup> H/D or O/H/D | UART  | I <sup>2</sup> C | SSI/SPI | I <sup>2</sup> S | ADC (10-bit) |                            |                                   |                                   |                       |                                    |                 |                                |                      |   |              |
|             |            |           | PWM                    | PWM Fault |                 |                               |     |                  |                 |                       |          | Dead-Band Generator         | CCP | QEI Channels | EPI | ADC Units         |                           |           |         |                               |       |                  |         |                  | ADC Channels |                            |                                   |                                   |                       |                                    |                 | ADC Speed (samples per second) | Internal Temp Sensor |   |              |
| LM3S9792    | 128        | 64        | √                      | √         | 80              | √                             | √   | √                | 4               | √                     | 2        | 8                           | 4   | √            | 8   | 2                 | √                         | √         | -       | 2                             | O/H/D | 3                | 2       | 2                | √            | 2                          | 16                                | 1M                                | √                     | 3/16                               | 65 <sup>e</sup> | -                              | √                    | I | 100-pin LQFP |
| LM3S9B92    | 256        | 96        | √                      | √         | 80              | √                             | √   | √                | 4               | √                     | 2        | 8                           | 4   | √            | 8   | 2                 | √                         | √         | √       | 2                             | O/H/D | 3                | 2       | 2                | √            | 2                          | 16                                | 1M                                | √                     | 3/16                               | 65 <sup>e</sup> | -                              | √                    | I | 100-pin LQFP |
| LM3S9B95    | 256        | 96        | √                      | √         | 80<br>100       | √                             | √   | √                | 4               | √                     | 2        | 8                           | 4   | √            | 8   | 2                 | √                         | √         | √       | 2                             | O/H/D | 3                | 2       | 2                | √            | 2                          | 16                                | 1M                                | √                     | 3/16                               | 65 <sup>e</sup> | -                              | √                    | I | 100-pin LQFP |

<sup>a</sup>PWM motion-control functionality can be achieved through dedicated motion control hardware (PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.  
<sup>b</sup>USB options for Stellaris® microcontrollers include Host/Device (H/D) capability and On-The-Go/Host/Device capability (O/H/D).  
<sup>c</sup>Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.  
<sup>d</sup>Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C  
<sup>e</sup>Indicates the maximum number of 5-V tolerant GPIOs for the Stellaris® Tempest-class of microcontrollers.



## Full Part Number Decoder



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