



**HIRSCHMANN**

A **BELDEN** BRAND

## Line Card - Industrial Networking Solutions



**Hirschmann™ Networking Equipment  
Maximizes Throughput, Simplifies  
Installation, and Reduces Total Cost  
of Ownership**

**Be certain.  
Belden.**



## Ethernet Products at a Glance

### Unmanaged DIN Rail Mount Switches

#### SPIDER, SPIDER II

Cost-effective, plug & play unmanaged switches

- SPIDER 2, 3, 5 or 8 ports
- SPIDER 2 or 5 ports with PoE PD
- SPIDER PoE Injector
- SPIDER II 8, 9, 10, 16 and 18 ports
- SPIDER II PoE 4 PoE and 4 standard ports
- SPIDER II GIGA 5 or 7 ports, all Gigabit



#### RS2, RS20, RS30

Feature-rich unmanaged switches with selectable port types, features and approvals

- RS2 5 and 8 ports
- RS20 4, 8, 9, 16, 17, 24 or 25 ports
- RS30 10, 18, or 26 ports, two of which are Gigabit



### Managed DIN Rail Mount Switches

#### GECKO

Lite managed switch

- GECKO 4TX 4 ports



#### RSB20

Fast Ethernet RSB switches with basic software version

- RSB20 8 or 9 ports



#### RS20, RS30, RS40, RS22, RS32

Fully configurable managed switches with selectable features and approvals

- RS20 4, 8, 9, 16, 17, 24 or 25 ports
- RS30 10, 18, or 26 ports, two of which are Gigabit
- RS40 9 ports, all Gigabit
- RS22 4, 8, 9, 16, 17, 24 or 25 ports, four of which are PoE
- RS32 10, 18, or 26 ports, four of which are PoE and two are Gigabit



### MS20, MS30, MSP30, MSP32

Managed modular switches with selectable features and approvals as well as user hot-swappable media modules for almost limitless copper/fiber combinations.

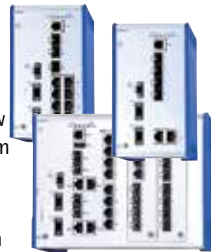
- MS20/30 up to 26 ports, two of which can be Gigabit
- MSP30/32 HiOS advanced Layer 2 and Layer 3 switch, up to 28 ports, four of which can be Gigabit



### RSP Series

Hardened managed switches with the new HiOS operating system

- RSP: uninterrupted redundancy thanks to PRP and HSR, on all ports IEEE 1588v2 time synchronization, comprehensive security functions, variants with 3 GE SFP and 8 FE ports, up to 7 FE SFP slots, Layer 2 and Layer 3 versions
- RSPS: optional PRP and HSR, on all ports IEEE 1588v2 time synchronization, variants with 6 FE ports, up to 4 FE SFP slots
- RSPL: comprehensive security functions, variants with 2 GE combo and 8 FE ports, up to 4 FE SFP slots
- RSPE: future-proof design and best-possible investment protection thanks to the maximum flexibility provided by the media modules, Layer 2 and Layer 3 versions



### RSR20, RSR30

Ultra-hardened switches, operating temperature -40°C to +85°C, DC or AC power input

- RSR20: 8 or 9 ports
- RSR30: 9 or 10 ports, two or three of which are Gigabit



### IP67 Waterproof Switches

#### OCTOPUS

OCTOPUS 5TX unmanaged, 5-ports, 12 D-code

- OCTOPUS 8M/16M/24M managed, 8, 16 and 24 ports, M12 D-code
- OCTOPUS 8M-6PoE and 8M-8PoE managed, 8 ports, M12 D-code, 6 and 8 of which are PoE
- OCTOPUS 16M-8PoE and 24M-8PoE managed, 16 and 24 ports, M12 D-code, 8 of which are PoE
- OCTOPUS OS20, 8 ports of M12 D-code and 2 multimode or singlemode ports
- OCTOPUS OS30, 8 ports of M12 D-code and 2 Gigabit multimode or singlemode ports
- OCTOPUS OS24, unmanaged or managed, 10 or 9 ports, 8 of which are PoE, 24 V DC or 110 V DC powered
- OCTOPUS OS20, unmanaged or managed, 10 or 9 ports, M12 D-code, 24 V DC or 110 V DC powered
- OCTOPUS OS32, 8 or 16 FE-ports, M12 D-code, 8 of which are PoE, 2 Gigabit M12 X-code or FO IEC V1



### 19" Rack Mount Switches

#### MACH100

Hardened Enterprise-grade switches

- MACH102-8TP modular switch, up to 26 ports, 10 fixed ports, two of which are Gigabit (modules available for MM/SM fiber, RJ45, PoE/PoE+ and SFP)
- MACH102-8TP-F 10 fixed ports, two of which are Gigabit
- MACH102-24TP-F 26 fixed ports, two of which are Gigabit
- MACH104 – All Gigabit, 4 RJ45/SFP combo ports and 20 RJ45 ports (4 of which can be PoE)
- MACH104 – All Gigabit, 4 RJ45/SFP combo ports, 16 RJ45 PoE+ ports (optional with 2 XFP 10G uplink ports)



# Be Certain with Belden



## 19" Rack Mount Switches

### MACH1000



Ultra-hardened switches, fully configurable, operating temperature -40°C to +85°C, optionally for all variants 4 PoE ports

- MACH1020, up to 24 ports
- MAR1030, up to 28 ports, up to four of which are Gigabit
- MAR1120, up to 20 ports on rear of switch
- MAR1130, up to 24 ports on rear of switch, up to four of which are Gigabit
- MAR1040, 16 Gigabit RJ45/SFP combo ports, in Layer 2 or Layer 3 version

### MACH4000



High density and high speed backbone switch w/Layer 3/routing and speeds up to 10 Gigabit

- MACH4002-24G up to 24 Gigabit ports
- MACH4002-24G+3X, up to 24 Gigabit ports and three 10 Gigabit XFP ports
- MACH4002-48G up to 48 Gigabit ports
- MACH4002-48G+3X up to 48 Gigabit ports and three 10 Gigabit XFP ports

## Wireless Ethernet



### BAT Access Points/Clients

- OpenBAT Rugged wireless LAN access point and/or client for use in industrial environments.
- BAT-C WLAN client
- Extensive antenna and accessory offering
- BAT-Planner software suite
- Wireless Local Area Network (WLAN) Controllers

## Security, Firewall and VPN Appliance

### EAGLE/Tofino

Network segmentation, VPN and deep packet inspection.



- Tofino Xenon: Industrial firewall with Stateful Packet Inspection (SPI) and optional Deep Packet Inspection (DPI) for bridged communication.
- EAGLE20-0400 and EAGLE30-0402: Multi-port Stateful Packet Inspection (SPI) firewalls in convection-cooled metal DIN Rail housings which support 6 LAN ports – two of which are Gigabit and two SHDSL ports
- EAGLE One: Industrial firewall providing Stateful Packet Inspection (SPI) for bridged or routed communication combined with a unique Firewall Learning Mode and comprehensive Network Address Translation (NAT) techniques.

## Fiber Transceivers/Modems

### FiberINTERFACES

Extending the reach of copper for serial and fieldbus protocols via fiber.



## Embedded Ethernet

### Switches

- EES Embedded Ethernet Switches
- EES Development Kit



## Ethernet Cord Sets

### Ethernet Cord Sets

Hardened pre-terminated and factory tested cordsets

- RJ45-RJ45, RJ45-M12, M12-M12
- Unshielded and Shielded Versions
- PVC, TPE and TPE High-Flex Cat 5e UTP
- 17 lengths - from 0.3 to 50 meters
- M12 bulkhead termination also available



## Modular Industrial Patch Panel (MIPP)

### MIPP

- Single Modules: 6 x SC Duplex, 6x LC Duplex, 12x LC Duplex, 4 x RJ45 Keystone Jack unshielded or shielded
- Double Modules: 12 x SC Duplex and 12 x LC Duplex
- Accessories: Pigtails



## Network Management Software

### Industrial HiVision



Network visualization and configuration software with integrated OPC server.

- Supports 32 and 64 bit Windows and Linux operating systems
- Optimized for Hirschmann™ devices
- Integration of third-party devices
- Enhanced Auto-Topology Discovery
- Path availability calculator
- User-defined menus
- Configuration check
- Client/Server architecture
- HiMobile app for iOS, Android and Windows phone
- Asset Management
- OPC read/write
- Configurable scan rate
- Supports multiple languages
- MultiConfig™ for simultaneous configuration of multiple devices
- Password-protected remote access
- Reporting Tools (PDF or Microsoft® Excel)
- Licenses are available for multiple user nodes
- Node count licenses are cumulative – they can be combined to obtain the optimum fit for your application

Product Overview



