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New Product Bulletin

NP 1028HE

Hirschmann™ PoE/PoE Plus Module for MACH100 Series Switches

Belden reaffirms its lead position in industrial network technology, with the introduction of its PoE/PoE Plus module for Hirschmann™ MACH100 Workgroup switches. The new 16 ports module is an entirely fan-free solution, yet it only occupies the height of a single unit.



PoE/PoE Plus Module for the Hirschmann™ Series of MACH100 Switches: 16 Ports that Pack a Punch

The new PoE/PoE Plus module for Hirschmann™ MACH100 series of Workgroup switches offers eight Fast Ethernet ports (10/100 BASE-TX). These ports are capable of providing 15.4 W (PoE) or 30 W (PoE Plus), though PoE Plus operation is limited to four of the ports. PoE/PoE-Plus operation is signalled by an LED for each port. It is also possible to operate PoE and PoE Plus ports simultaneously, providing up to 120 W total power. This means that the new module offers considerable flexibility and guarantees your investment to be future proof.

You can also use PoE Plus to easily power devices with higher power requirements such as IP cameras with pan-tilt-zoom, Voice over IP (VoIP) videophones or multiband WLAN access points. The three-pin terminal block that is used to connect the external power supply guarantees a secure 48V DC (PoE) or 52V DC (PoE Plus) conveyed via pairs 1/2 and 3/6 – so-called "Phantom power". For each MACH100 switch two modules can be used, up to a total of 16 ports.

Advantages and Features at a Glance:

- 8 PoE/PoE Plus ports per module
- 16 ports per MACH100 Workgroup switch
- Simultaneous operation of PoE and PoE Plus ports
- LEDs to indicate PoE/PoE Plus operation
- External power supply with three-pin terminal block
- Phantom power
- Protection against electrostatic discharges, magnetic fields and interference
- Easy to commission
- Convenient configuration and diagnostics
- Hot-swappable





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Greater Flexibility for
your Network thanks to
more PoE Ports.

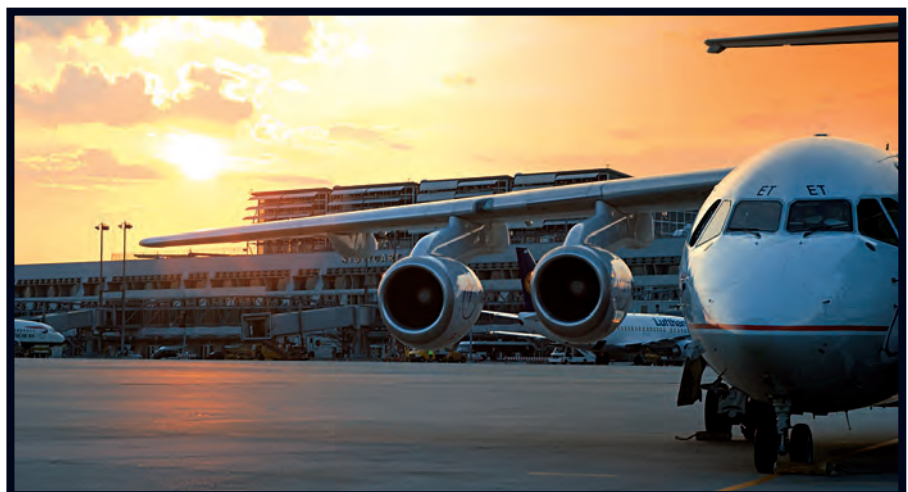
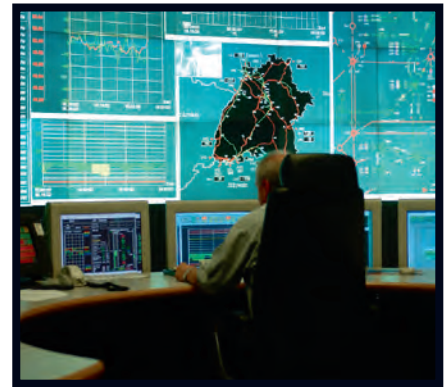
MACH100 – the Genuine Industrial-Grade Workgroup Switch Family

These plug-and-play modules are shielded against electrostatic discharges, magnetic fields and interference, and are hot-swappable. Network Management software and web interface both facilitate configuration and diagnostics. LEDs on the front of the unit continually display the current status of the network connections.

The modular Fast Ethernet switches of the MACH100 series, which also support the protocols Profinet and EtherNet/IP, can be used to network workgroups via copper or fiberoptic cables and connect them to the backbone via two Gigabit combo ports. The switches are designed to operate in the temperature range of 0°C to +50°C. They offer extensive management and redundancy methods as well as a variety of functions for configuration and diagnostics. They also contain a fanless cooling system and a redundant power supply.

Proven Technology

The design and software of the new MACH100 family are based on the proven Hirschmann™ OpenRail platform, and the switches are fully integrated into the Industrial HiVision Management Software. MACH100 switches can also be combined easily with MACH4000 switches.





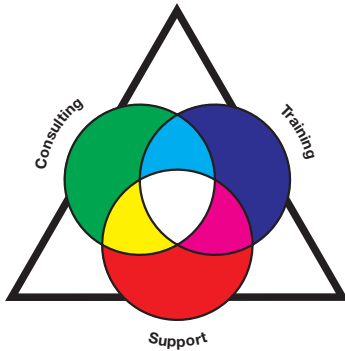


Technical Data

Product Description	
Description	Media module for modular, managed, Industrial Workgroup Switch MACH102 10/100 BASE-TX
Type	M1-8TP-RJ45 PoE
Order No.	942 028 - 001
Network Size - Length of Cable	
Twisted Pair (TP)	0 - 100 m
Power Requirements	
Power consumption	2.2 W (plus up to 120 W PoE per external power supply)
Ambient Conditions	
Operating temperature	0°C to +50°C
Storage/transport temperature	-20°C to +85°C
Relative humidity (non-condensing)	10% to 95%
MTBF	n/a
Mechanical Construction	
Dimensions (W x H x D)	138 x 42 x 90 mm
Mounting	Media Module
Weight	260 g
Protection class	IP20
EMC Interference Immunity	
EEN 61000-4-2 electrostatic discharge (ESD)	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 2700 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 4 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 4 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz - 80 MHz)
EMC Emitted Immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
Scope of Delivery and Accessories	
Scope of delivery	Media module, user manual

MACH100 Basic Devices (M1-8TP-RJ45 PoE suitable for MACH102 devices)

Product Description	MACH102-8TP	MACH102-8TP-R
		
Order No.	943 969 - 001	943 969 - 101
Description	Fast/Gigabit Ethernet switch according to IEEE 802.3; modular, managed Industrial Workgroup Switch, Layer 2 with Software Professional; Store-and-Forward-Switching; fanless design	
		Redundant power supply
Port type and quantity	8 x 10/100BASE-TX Ports (RJ-45) 2 x Gigabit combo ports and 2 slots for FE media modules M1-xx	
Power Requirements		
Operating voltage	100 – 240 VAC, input frequency: 47 – 63 Hz	
Current consumption /Power output	12 W / 41 Btu (IT)/h (without media modules)	13 W / 44 Btu (IT)/h (without media modules)



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