

New Product Bulletin

PB 323

Hirschmann™ Robust Unmanaged OCTOPUS Switch with Ten 10/100 M12 D-code Ports

With the new unmanaged 10-port switch from its familiar OCTOPUS series, Hirschmann™ is offering a cost-effective variant that facilitates economical solutions, particularly in small decentralized networks.



Robust Unmanaged
OCTOPUS Switch from
Hirschmann: 10 Ports
at an Advantageous Price

The new unmanaged Fast Ethernet switch from Hirschmann's familiar OCTOPUS series possesses ten twisted-pair ports (10/100 BASE-TX). The M12 connections with D coding withstand powerful vibration. Additional features include a robust, fire-proof, die-cast housing, protection class IP54 and a temperature range from -40°C to +70°C.

The OCTOPUS 10TX complies with all the relevant industry standards and is approved for use in road and rolling stock/rail vehicles and ships. This makes it particularly suitable for use in small-scale networks in transport, manufacturing and process automation – specifically, wherever management functions are not required.

The switch, which boasts a MTBF rating (mean time between failure) of 30 years, can be quickly and easily commissioned as no switch settings are required for operation. On the front of the unit there are LEDs that display the device status, network status, and the presence of a functioning power supply. The fanless design and redundant 24V power supply guarantee high operational safety and maximum network availability.

The OCTOPUS 10TX can be mounted on the wall or on the machine itself. It also occupies very little space – the compact housing measures only $184 \times 189 \times 70$ mm / $7.25 \times 7.44 \times 2.75$ in (width x height x depth).

Advantages at a Glance:

- 10 x 10/100 BASE-TX Fast Ethernet ports
- M12 connections with D coding
- · Fireproof housing
- IP54 protection rating
- -40°C to +70°C operating temperature range
- Approved for rail, road and marine applications
- MTBF 30 years
- · Fanless design
- Redundant power inputs



Withstands any Load: The New OCTOPUS

The OCTOPUS family offers the complete solution for extreme environmental conditions.

Wherever reliable, intelligent and efficient data transmission has to be guaranteed under extreme conditions, the OCTOPUS family feels at home. Not only at the device level, in factory and process automation, but also in trains or onboard ships – regardless of whether it needs to withstand great mechanical stress, vibrations, wet conditions, dirt or dust.

Due to their compact and hardened design, all OCTOPUS switches can be mounted either on the wall or directly on the machine. The waterproof OCTOPUS variants have either 5, 8, 10, 16 or 24 twisted pair ports, designed in ODVA-standardized 4-pin-M12-D technology. Since the switches can be cascaded according to your requirements, networks with a distributed structure and short transmission distances to the terminating equipment, can be implemented.





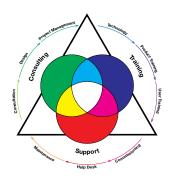




Technical Data

Product Description	
Description	Unmanaged switch in accordance with IEEE 802.3, store-and-forward switching, Fast-Ethernet (10/100 Mbit/s) ports
Port type and quantity	10 x 10/100 BASE-TX, M12 D coding, 4-pole, - auto-crossing, auto-negotiation, auto-polarity
Туре	OS20-001000T5T5TAFUHB
Order No.	942 025-001
More Interfaces	
Power supply/signaling contact	1 x M12 5-pin connector, A coding, no signaling contact (see other OCTOPUS switches for this feature)
Network Size - Cascadibility	
Line - / star topology	any
Ring structure (HIPER-Ring)	quantity switches n/a
Power Requirements	
Operating voltage DC	19.2 V - 60 V
Power consumption	8 W
Ambient Conditions	
Operating temperature	-40°C to 70°C
Storage/transport temperature	-40°C to 85°C
Relative humidity (also condensing)	10 % to 100 %
MTBF	30 years; MIL-HDBK 217F; Gb 25°C
Mechanical Construction	
Dimensions (W x H x D)	184 mm x 189 mm x 70 mm
Mechanical Construction	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	20 V/m (80-1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 1 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
Approvals	
Safety of industrial control equipment	cUL 60950-1 (pending)
Employment in vehicles	E1 (pending)
Electronic mechanisms on rail-mounted vehicles	EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102





The Hirschmann Competence Center

Hirschmann provides an economical end-to-end solution for your network. In addition to its well-known products, Hirschmann also offers a wide range of vendor-independent services – whether it is consulting, training or support. At the Hirschmann Competence Center, you can be sure of tailored service from a single supplier.

Whichever technology you use, our experts will support you all the way, from designing your network to optimizing the performance required in the operational phase. The most current technological and product expertise, an international service and support network and fast access to external specialists guarantees you the best possible support. Bundle your individual service package today!

To learn more about the Hirschmann Competence Center or to register for sessions go to: **www.hicomamericas.com**

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You will find further information and technical details online at www.belden.com/hirschmann or contact our Sales Team directly: Tel. 717.217.2299.

PB 323 - OCTOPUS 10TX 032011