

DIAMOND *flexos*

Fiber Optic Active Components

SWITCHES

The DIAMOND Industrial Switch line includes a 6 or 10 port Ethernet Module. The high performance redundant Ethernet ring's capability (Commutation time <20ms) provides the necessary protection for time and high traffic critical applications. The rugged structure design makes this product suitable for use in industrial environments. The 35mm DIN-Rail snap fitting allows quick and simple mounting in wall distributors and panels without the need of special tooling.

The Switches offer the following functions:

- ▶ 2 Fast Ethernet/Gigabit optical fiber connections 100BaseFX/1000BaseSX/LX allow the implementation of a fault-tolerant optical fiber ring. Chain-linking of several industrial switches will enable longer distances to be achieved.
- ▶ 4 Port 10/100BaseTX or 7 Port 10/100 BaseTX connections for Ethernet terminals like machine and control systems, consoles or further network user and 1 Port 10/100/1000 BaseT for a faster uplink connection on the 10 port Version.

FEATURES AND BENEFITS

- ▶ Fast Ethernet 6 port switch module
Electrical 4x10/100BaseTX, Optical 2x100BaseFX
- ▶ Gigabit Ethernet 10 Port switch
Electrical 7x10/100BaseTX/1x10/100/1000BaseT,
Optical 2x BaseSX/LX
- ▶ 2 optical connections E2000™ LAN Low Profile building fault tolerant fiber rings
- ▶ Management per SNMP, Telnet, Webbased
- ▶ Full VLANs functionality / Data prioritization according to IEEE 802.1q
- ▶ Autonegotiation and UTP/STP MDI/MDI-X auto crossing
- ▶ Redundant power input with effective overvoltage protection
- ▶ Alarm relay contacts for connection of external alarm system
- ▶ Robust and compact design, mounting on 35mm DIN-Rails

SPECIFICATIONS

Compatibility:	IEEE802.3 10/100BaseTX and 100BaseFX IEEE820.3ab 1000BaseT, IEEE820.3z 1000BaseSX
Type:	Fast Ethernet/Gigabit Industrial Switch 6 Port (4x10/100BaseTX, 2x100BaseFX) or Gigabit Ethernet Industrial Switch 10 port (1x 10/100/1000BaseT, 7x 10/100BaseTX, 2x 1000BaseSX/LX)
Interfaces:	Optical: 2x E-2000® LAN Low Profile Electrical: 4-8x RJ45
Cable type:	Shielded-Twisted-Pair cable, 100 Ohm, Kat. 5e
Fiber type:	Multimode 50 or 62.5/125µm Singlemode 9/125µm

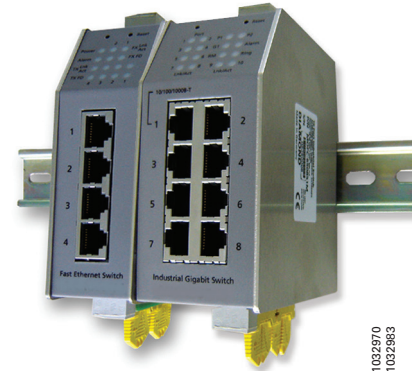


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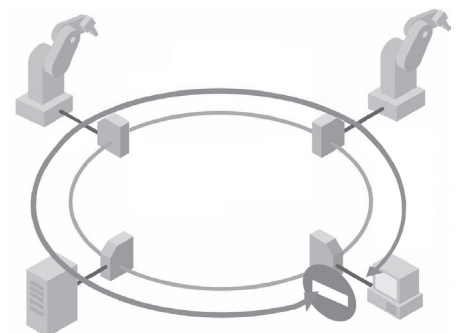
www.diamond-fo.com

Industrial Switch

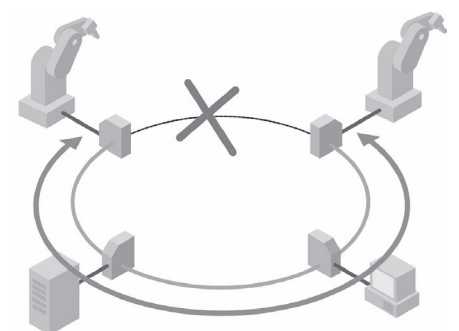
FAST ETHERNET 6 PORT
GIGABIT ETHERNET 10 PORT



EOO 1032970
EOO 1032983



Normal operation status



Data transmission in failure status

Specifications subject to change
without notice

BDD 1950620 04_21

SPECIFICATIONS

Data rate:	TX: 10/100 Mbit/s or 10/100/1000 Mbit/s FX: 100 Mbit/s or 1000 Mbit/s
Wavelength:	100FX 1300nm / 1000SX 850nm/1000LX 1310nm
Optical Power:	-19dBm MM 1300nm, -10dBm MM 850nm, -15dBm SM 1310nm
Sensitivity:	-31dBm MM 1300nm, -20dBm MM 850nm, -31dBm SM 1310nm
Max. distance:	100 m (UTP/STP) Full-duplex 100Mbit/s 2km / 1000Mbit/s 550m (MM) Full-duplex 100Mbit/s 15km / 1000Mbit/s 10km (SM)
Dimensions:	6 port: 38 x 108 x 116mm; 10 port: 50 x 108 x 116mm (B x T x H)
Mounting System:	35mm standard rail, according DIN EN 50 022
Operating temp.:	-20°C bis 60°C (optional expandable operating temp. -40°C bis 75°C)
Storage temp.:	-20°C bis 80°C
Rel. humidity:	5% bis 90% (non condensing)
Power supply:	18.....36V DC / max. 500 mA (Standard) or 36....72V DC / 400mA (optional 48VDC or PoE version)
LED display:	Power Ready for operation Lnk/Act Link activity per port FD Half/Full-duplex transmission per port Alarm missing power supply or recovery state in ring mode

ORDER INFORMATION

PRODUCT NAME	DESCRIPTION	ORDER NUMBER
Industrial Switch 10/100 6 Port MM	E-2000® Fast Ethernet Industrial Switch 4x10/100TX + 2x100FX, 2x E-2000® MM, 1300nm, 24VDC	EQQ 1032970
Industrial Switch 10/100 6 Port SM	E-2000® Fast Ethernet Industrial Switch 4x10/100TX + 2x100FX, 2x E-2000® SM, 1310nm, 24VDC	EQQ 1032981
Industrial Switch 10/100/1000 10 Port MM	E-2000® Gigabit Industrial Switch 7x10/100TX, 1x10/100/1000T + 2x1000SX, 2x E-2000® MM, 850nm, 24VDC	EQQ 1032983
Industrial Switch 10/100/1000 10 Port SM	E-2000® Gigabit Industrial Switch 7x10/100TX, 1x10/100/1000T + 2x1000LX, 2x E-2000® SM, 1310nm, 24VDC	EQQ 1040941
Industrial Switch PoE 10/100/1000 10 Port MM	E-2000® Gigabit Industrial Switch 7x10/100TX, 1x10/100/1000T + 2x1000SX, 2x E-2000® MM, 850nm, 48VDC integrated PoE- Controller	EQQ 1041192
Power Supply Module 24W 24VDC	AC/DC DIN-Rail Power Supply, 24 Watt 24VDC/1.0A, wide range input 85-264 VAC	EQQ 1032969
Power Supply Module 60W 24VDC	AC/DC DIN-Rail Power Supply, 60 Watt 24VDC/2.5A, wide range input 85-264 VAC	EQQ 1035200
Power Supply Module 60W 48VDC for PoE Switches	AC-DC DIN-Rail Power Supply, 60 Watt 48VDC/1.25A, wide range input 85-264 VAC, suitable for PoE Switches	EQQ 1041194



EQQ 1032969/1035200

Also available with other common optical interfaces or in singlemode configurations, please contact your local DIAMOND representative.