

Industrial Gigabit Ethernet Switch

ON-5716E-2F

The Optech Network Solutions ON-5716E-2F is a rugged 16-port industrial Gigabit Ethernet switch designed for reliable high-speed network connectivity in demanding industrial environments.

The Optech Network Solutions ON-5716E-2F is a rugged 16-port industrial Gigabit Ethernet switch featuring 14 Gigabit RJ-45 ports and 2 Gigabit SFP fiber ports for high-speed, reliable industrial connectivity.

It delivers 32 Gbps switching capacity, 23.8 Mpps forwarding performance, 8K MAC address entries, and 9 KB jumbo frame support for demanding industrial network applications.

Its IP50-rated metal enclosure, redundant 12–56 VDC power inputs, alarm relay, DIN-rail and wall mounting, and -40°C to +75°C operating temperature range make it suitable for harsh industrial environments.

Benefits

- Jumbo Frame Support
- Redundant DC Power Inputs
- Integrated Alarm Relay
- IP50 Metal Enclosure
- Wide Temperature Operation
- DIN-Rail Mounting Support

Features

- 16-Port Gigabit Connectivity
- 14 Gigabit Ethernet Ports
- Dual Gigabit SFP Ports
- 32 Gbps Switching Capacity
- High-Speed Packet Forwarding
- 8K MAC Address Table

Applications

- Industrial automation networks
- Factory Ethernet infrastructure
- Utility and infrastructure networks
- Industrial control systems

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- Fiber-connected industrial networks
- Transportation and infrastructure communication
- Industrial surveillance networks

Technical Specification

Product Type	Industrial Gigabit Switch
Model	ON-5716E-2F
Total Ports	16 Ports
Ethernet Ports	14 × Gigabit RJ-45
Ethernet Speed	10/100/1000 Mbps
Fiber Ports	2 × Gigabit SFP
Network Standards	IEEE 802.3 Series
Switching Capacity	32 Gbps
Forwarding Rate	23.8 Mpps
Packet Size	64-Byte Packets
MAC Address Table	8K Entries
Data Buffer	512 KB
Jumbo Frame	9 KB
Power Input	12–56 VDC
Recommended Power Supply	Approved 24 VDC Supply
Maximum Power Consumption	9 W @ 56 VDC
Power Configuration	Redundant Power Inputs
Terminal Block	6-Pin Removable Block
Alarm Relay	1 A @ 24 VDC
Wire Cross-Section	0.34–2.5 mm²
Wire Gauge	AWG 12–24
Wire Type	Solid or Stranded
Terminal Torque	5 lb-in
Torque Equivalent	0.5–0.56 Nm
Wire Strip Length	7–8 mm
Enclosure Protection	IP50-Rated Metal Enclosure
Installation Options	

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Grounding	Dedicated Grounding Point
ESD Protection	6 kV Contact, 8 kV Air
Surge Protection	2 kV
Operating Temperature	-40°C to +75°C
Operating Humidity	Up to 95% RH
Humidity Condition	Non-Condensing
Dimensions (L × W × H)	142 × 105 × 45.5 mm
Weight	450 g
MTBF	1,276,042 Hours
MTBF Reference Temperature	25°C
LED Indicators	Power, Network Status
Certifications	CE, FCC, LVD
Environmental Testing	IEC 60068-2-27
Drop Testing	IEC 60068-2-32
Vibration Testing	IEC 60068-2-6

Power & Fault Tolerance	**Industrial Protection**	**Standards & Compliance**
Supports external DC power.		The supplied source references:
	IP50 metal enclosure	
Power	-40°C to +75°C operating temperature	IEEE 802.3
	Up to 95% non-condensing humidity	IEEE 802.3u
Input: 12–56 VDC	Shock resistance	IEEE 802.3ab
Maximum consumption: 9 W @ 56 VDC	Vibration resistance	IEEE 802.3x
Redundant power input	Freefall resistance	IEEE 802.3z
Overload current protection	ESD protection	CE
	Surge protection	FCC
	Dedicated grounding point	LVD
		IEC 60068-2-27 — Shock
		IEC 60068-2-32 — Freefall
		IEC 60068-2-6 — Vibration

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Gigabit Copper Ports	Network Performance	Mounting
The ON-5716E-2F provides:	The switch provides:	Supports flexible industrial installation:
14 × 10/100/1000 Mbps RJ-45	32 Gbps switching fabric	DIN-rail mounting
Gigabit Ethernet connectivity	23.8 Mpps forwarding rate	Wall mounting
Support for (10, 100, 1000) Mbps Ethernet operation	8K MAC address table	Integrated grounding point
	512 KB data RAM buffer	
	9 KB jumbo frame support	Its compact dimensions are:
		142 × 105 × 45.5 mm (L × W × H)

Fiber Interfaces	Alarm Relay	Terminal Block
	Power-Failure Alarm Indication	Removable 6-Pin Terminal Block
2 × 1000 Mbps SFP ports	Relay Rating: 1 A at 24 VDC	Power and Alarm Connections
Designed for Gigabit fiber network connectivity	Integrated Terminal Block Relay	Wire Size: 0.34–2.5 mm²
Supports 1000Base-FX/SFP-based fiber applications		Wire Gauge: AWG 12–24
		Solid and Stranded Wires
		Wire Strip Length: 7–8 mm
		Terminal Torque: 0.5–0.56 Nm

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