

Industrial Gigabit Ethernet Switch

ON-5716G-2F

The Optech Network Solutions ON-5716G-2F is a 16-port unmanaged industrial Gigabit Ethernet switch designed for demanding industrial networking environments. It provides 14 × Gigabit copper Ethernet ports and 2 × Gigabit SFP fiber slots, with a rugged IP30 metal enclosure, redundant power inputs, alarm relay, and a wide operating temperature range of -40°C to +75°C.

The Optech Network Solutions ON-5716G-2F is a 16-port unmanaged industrial Gigabit Ethernet switch featuring 14 Gigabit Ethernet ports and 2 Gigabit SFP fiber slots for reliable industrial networking.

It delivers 32 Gbps switching capacity, a 23.8 Mpps forwarding rate, an 8K MAC address table, and jumbo frame support up to 9 KB for efficient data transmission.

Designed for demanding industrial environments, it features a rugged IP30 metal enclosure, redundant 12–56 VDC power inputs, an alarm relay, and DIN-rail or wall mounting, with an operating temperature range of -40°C to +75°C.

Benefits

- Redundant Power Inputs
- Industrial Alarm Relay
- Wide Temperature Operation
- Rugged IP30 Metal Enclosure
- DIN-Rail Wall Mounting
- ESD Surge Protection

Features

- 16-Port Gigabit Connectivity
- 14 Gigabit Ethernet Ports
- 2 Gigabit SFP Slots
- 32 Gbps Switching Capacity
- 23.8 Mpps Forwarding Rate
- 9 KB Jumbo Frames

Applications

- Industrial Automation
- SCADA Network Connectivity
- Factory Network Integration
- Industrial Process Monitoring

Distributed By:
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- Machine-to-Machine Communication
- Fiber Network Expansion
- Building Automation Systems

Technical Specification

Model	ON-5716G-2F
Brand	Optech Network Solutions
Switch Type	Unmanaged Industrial
Total Ports	16 Ports
Ethernet Ports	14 × Gigabit
Fiber Ports	2 × Gigabit SFP
Fiber Standard	1000Base-FX
Ethernet Speed	10/100/1000 Mbps
Full-Duplex Rate	2000 Mbps
Duplex Support	Full / Half
Network Standards	IEEE 802.3 Series
Switching Capacity	32 Gbps
Forwarding Rate	23.8 Mpps
MAC Address Table	8K Entries
Data Buffer	512 KB
Jumbo Frame	Up to 9 KB
Switching Method	Unmanaged Switching
Power Input	12–56 VDC
Power Redundancy	Multiple Inputs
Power Consumption	13 W Maximum
Power Protection	Overload Protection
Power Alarm	Supported
Alarm Relay	1 A @ 24 VDC
Terminal Block	6-Pin Removable
Wire Range	0.34–2.5 mm²
Grounding Point	Supported
ESD Protection	6 kV Contact, 8 kV Air

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Surge Protection	2 kV
Enclosure	Rugged Metal
Protection Rating	IP30
Mounting Options	DIN-Rail / Wall
Operating Temperature	-40°C to +75°C
Operating Humidity	Up to 95% RH
Dimensions	155 × 120 × 48 mm
Weight	536 g
Shock Resistance	IEC 60068-2-27
Freefall Resistance	IEC 60068-2-32
Vibration Resistance	IEC 60068-2-6
EMC/EMS Standards	IEC 61000-4 Series
MTBF at 50°C	514,167 Hours
MTBF at 75°C	188,310 Hours

Port Configuration		
Port Type	Quantity	Interface / Speed
Ethernet	14	Gigabit Ethernet, 10/100/1000 Mbps
Fiber	2	Gigabit SFP, 1000Base-FX
Total	16	14 Ethernet + 2 Fiber

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