

Industrial Gigabit Ethernet Switch

ON-6012G-2F

The Optech Network Solutions ON-6012G-2F is a 12-port full Gigabit unmanaged industrial Ethernet switch designed for high-speed and reliable industrial networking. It provides 10 × 10/100/1000Base-T(X) RJ-45 Ethernet ports and 2 × 1000Base-X fiber ports, with support for SC, ST, FC, or SFP fiber interfaces depending on the selected configuration.

The Optech Network Solutions ON-6012G-2F is a 12-port unmanaged industrial Ethernet switch featuring 10 Gigabit RJ45 ports and 2 Gigabit fiber ports for reliable industrial network connectivity.

It supports flexible fiber interfaces, including SC, ST, FC, and SFP, depending on configuration. Its 24 Gbps switching bandwidth, non-blocking forwarding, and 8K MAC address table support high-speed data transmission.

Designed for industrial environments, it features a fanless metal enclosure, IP40 protection, DIN-rail mounting, dual power inputs, and an operating temperature range of -40°C to +85°C.

Benefits

- 8K MAC Address Table
- Dual Power Inputs
- Wide Temperature Operation
- Fanless Industrial Design
- IP40 Metal Enclosure
- DIN-Rail Mounting Support

Features

- 12-Port Gigabit Switching
- 10 Gigabit RJ45 Ports
- 2 Gigabit Fiber Ports
- Flexible Fiber Interfaces
- 24 Gbps Switching Bandwidth
- Non-Blocking Data Forwarding

Applications

- Industrial Automation Systems
- 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-6012G-2F
Switch Type	Unmanaged Industrial
Total Ports	12 Ports
Ethernet Ports	10 × Gigabit RJ45
Fiber Ports	2 × 1000Base-X
Fiber Interfaces	SC / ST / FC / SFP
Ethernet Distance	Up to 100 m
Single-Mode Distance	Up to 120 km*
Multi-Mode Distance	Up to 2 km
Duplex Mode	Full / Half
MDI/MDI-X	Auto MDI/MDI-X
Switching Method	Store-and-Forward
Switching Bandwidth	24 Gbps
Forwarding Rate	1,488,095 pps
MAC Address Table	8K Entries
Forwarding Performance	Non-Blocking
Network Standards	IEEE 802.3 Series
Power Alarm	Supported
DC Power Input	12/24/48 VDC
DC Voltage Range	10.8–52.8 VDC
AC Power Input	110/220 VAC
AC Voltage Range	88–264 VAC
High-Voltage DC Input	110/220 VDC
DC Voltage Range	88–264 VDC
Power Redundancy	Dual Inputs
Power Consumption	15 W
Enclosure	Industrial Metal

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	Cooling	Cooling
	Protection Rating	Protection Rating
	Dimensions	Dimensions
	Weight	Weight
	Mounting	Mounting
	Operating Temperature	Operating Temperature
	Storage Temperature	Storage Temperature
	Relative Humidity	Relative Humidity
	EMI Standards	EMI Standards
	EMS Standards	EMS Standards
	Mechanical Standards	Mechanical Standards
	MTBF	MTBF

Port Configuration		
Port Type	Quantity	Interface / Speed
Ethernet	10	10/100/1000Base-T(X), RJ-45
Fiber	2	1000Base-X, SC/ST/FC/SFP
Total	12	10 Ethernet + 2 Fiber

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