

Industrial Fiber Ethernet Switch

ON-5524E-2F

The Optech Network Solutions ON-5524E-2F is a 6-port industrial Ethernet switch featuring 4 × 10/100Base-T(X) Ethernet ports and 2 × 100Base-FX fiber ports. It supports both single-mode and multimode fiber configurations with SC or ST connector options.

The Optech Network Solutions ON-5524E-2F is a 6-port unmanaged industrial Ethernet switch featuring 4 × 10/100 Mbps RJ45 ports and 2 × 100 Mbps fiber ports.

It supports single-mode fiber up to 30 km and multimode fiber up to 2 km, with SC/ST connector options for flexible industrial connectivity.

Designed for demanding environments, it offers redundant 12–48 VDC power inputs, loop detection, port-based QoS, jumbo frames, and DIN-rail or wall mounting.

Benefits

- Redundant DC Power
- Loop Detection Support
- Port-Based QoS
- Jumbo Frames Support
- Rugged IP30 Enclosure
- Wide-Temperature Operation

Features

- 6-Port Industrial Connectivity
- 4 × Fast Ethernet Ports
- 2 × Fiber Ports
- Single-Mode Fiber Support
- Multimode Fiber Support
- Up to 30 km

Applications

- Industrial Automation Systems
- SCADA Network Connectivity
- Factory Network Integration
- Remote Equipment Communication

Distributed By:
Optech Network Solutions
Plot Number 24, Morta,
Ghaziabad 201003
+91 9910557119
sales@optechnetwork.com

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- Industrial Process Monitoring
- Building Automation Systems
- Outdoor Industrial Networking

Technical Specification

Product Model	Optech Network Solutions ON-5524E-2F
Product Type	6-Port Unmanaged Industrial Ethernet Switch
Total Ports	6
Ethernet Ports	4 × 10/100Base-T(X) RJ45
Fiber Ports	2 × 100Base-FX
Fiber Type	Single-Mode / Multimode
Fiber Connector Options	SC / ST
Ethernet Transmission Distance	Up to 100 m
Multimode Fiber Distance	Up to 2 km
Single-Mode Fiber Distance	Up to 30 km
Transmission Speed	Up to 100 Mbps
Multimode Fiber Wavelength	1310 nm
Multimode Tx Power	-14 / -20 dBm
Multimode Rx Sensitivity	-32 dBm
Multimode Fiber Parameters	50/125 µm, 62.5/125 µm
Single-Mode Fiber Wavelength	1310 nm
Single-Mode Tx Power	-8 / -15 dBm
Single-Mode Rx Sensitivity	-34 dBm
Single-Mode Fiber Parameters	9/125 µm
MAC Table Size	2K entries
Packet Buffer Size	1 Mbit
Switching Capacity	1.2 Gbps
Jumbo Frame Support	Up to 9,216 bytes
Network Standards	IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab
QoS	Port-based QoS
Loop Detection	Supported
SCADA Communication	Modbus/TCP

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NMS Communication	SNMP
Ethernet Connectors	4 × RJ45
Fiber Connectors	2 × SC/ST
Terminal Block	6-Pin Screw Terminal
LED Indicators	Power, Fault, Loop
Ethernet Indicators	Link/Activity, Speed
Power Input	12–48 VDC
Input Voltage	8.4–52.8 VDC
Power Configuration	Redundant Dual Inputs
Power Consumption	4 W Maximum
Fault Output	1 Relay
Enclosure Protection	IP30 Metal Shell
Mounting Options	DIN-Rail, Wall-Mount
Dimensions	43 × 120 × 84 mm
Standard Temperature	-10°C to 60°C
Wide Temperature	-40°C to 75°C
Storage Temperature	-40°C to 75°C
Operating Humidity	10–95% RH
Storage Humidity	10–95% RH
Humidity Condition	Non-Condensing
Protection Features	Reverse Polarity, Overload
MTBF	144,890 Hours
Safety Standards	IEC/EN 60950, UL60950
Industrial Certifications	UL508, Class I Div 2, ATEX
EMI Standards	FCC Part 15 Class A
Emissions Standards	EN 55011/55022 Class A
EMS Standards	EN 61000-4 Series
EMS Test Level	Level 3
Shock Testing	IEC 60068-2-27
Freefall Testing	IEC 60068-2-32
Vibration Testing	IEC 60068-2-6

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Variant Configuration	Fiber Type	Connector	Maximum Distance	Operating Temperature
Standard Single-Mode	Single-Mode	SC	Up to 30 km	-10℃ to 60℃
Wide-Temperature Single-Mode	Single-Mode	SC	Up to 30 km	-40℃ to 75℃
Standard Multimode	Multimode	SC	Up to 2 km	-10℃ to 60℃
Wide-Temperature Multimode	Multimode	SC	Up to 2 km	-40℃ to 75℃
Standard Single-Mode	Single-Mode	ST	Up to 30 km	-10℃ to 60℃
Wide-Temperature Single-Mode	Single-Mode	ST	Up to 30 km	-40℃ to 75℃
Standard Multimode	Multimode	ST	Up to 2 km	-10℃ to 60℃
Wide-Temperature Multimode	Multimode	ST	Up to 2 km	-40℃ to 75℃

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