

ON-6012G-2F Datasheet

ON-6012G-2F

Product Model	Optech Network Solutions ON-6012G-2F
Product Type	12-Port Full Gigabit Unmanaged Industrial Ethernet Switch
Total Ports	12
Ethernet Ports	10 × 10/100/1000Base-T(X) RJ-45
Fiber Ports	2 × 1000Base-X
Fiber Interfaces	SC / ST / FC / SFP slot, depending on configuration
Ethernet Transmission Distance	Up to 100 m over Cat.5e
Single-Mode Fiber Distance	20 / 40 / 60 km @ 1310 nm; 80 / 100 / 120 km @ 1550 nm
Multi-Mode Fiber Distance	Up to 2 km @ 1310 nm
Duplex Mode	Full-duplex / Half-duplex
Auto MDI/MDI-X	Supported
Switching Method	Store-and-forward
Switching Bandwidth	24 Gbps
Forwarding Rate	1,488,095 pps
MAC Address Table	8K
Forwarding	Non-blocking, full-line-rate forwarding
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab
Power Alarm	Supported
Power Input – Option 1	12/24/48 VDC
DC Input Range	10.8–52.8 VDC
Power Input – Option 2	110/220 VAC, 88–264 VAC, 50–60 Hz
AC/DC High-Voltage Input	110/220 VDC, 88–264 VDC
Power Configuration	Dual power input supported
Rated Power Consumption	15 W
Enclosure	Industrial metal enclosure, fanless
IP Rating	IP40
Dimensions	150 × 120 × 70 mm

Weight	<1600 g
Installation	DIN-Rail
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	0–95% RH, non-condensing
EMI	FCC Part 15, CISPR (EN55022) Class A
EMS	IEC(EN)61000-4-2, -4-3, -4-4, -4-5, -4-6
Mechanical Tests	IEC 60068-2-27 Shock; IEC 60068-2-32 Freefall
MTBF	>500,000 hours, source-referenced