

Hardened 10/100/1000BASE-TX to Gigabit SFP Media Converter

Gigabit

0

EL9020



	Wide Temp	ITS	UL508
verview	ļ		Q

The EL9020 functions at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and is tested for functional operation @ -40°C to 85°C (-40°F to 185°F). Whether on the factory floor or the street corner, the EL9020 will provide flawless communications when you need it most. The EL9020 series offers 1000BASE SFP socket to support multi-mode/single-mode fibre optics. The RJ-45 port on this unit provides Auto-MDIX and auto-negotiation. The link-fault-pass-through feature allows the network management agent on adjacent equipment to react to a broken link. Flexibility is the main feature of the EL9020, it may be DIN rail or panel mounted, and comes with power options to match the applications that require a tough, environmentally hardened, Gigabit Ethernet media converter

Features

- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- DIP switch configuration for "Link-Fault-Pass-Through", fibre Auto/force mode, link down alarm
- > 1000Mbps-Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- SFP socket for Gigabit fibre optic expansion

Ordering Information

EL9020-00Z 10/100/1000BASE-TX to Gigabit SFP Hardened Media Converter

Power Input Interface:

(Z) = B: Terminal Block & DC Jack

SFP Hardened Type Gigabit Fibre Transceiver: (Optional)

- > Alarms for power and port link failure by relay output
- Redundant power inputs with Terminal Block and DC Jack
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- Hardened aluminium case
- Supports DIN-Rail, Panel or Rack Mounting installation

SFP Hardened Type Gigabit Fibre Transceiver: (Optional)							
	Part Number	Typical Distance	Wavelength (nm)	Cable Type	Connector		
	EX-1250NSP-SB1L-A	275M/550M	850	MM	Duplex LC		
	EX-1250TSP-MB4L-A	10KM	1310	SM	Duplex LC		
	EX-1250TSP-NB6L-A	40KM	1310	SM	Duplex LC		
	EX-1250TSP-KB8L-A	70KM	1550	SM	Duplex LC		
	EX-1250TBP-MB1L-A	550M	TX:1310 / RX:1550	MM WDM-A	LC		
	EX-1250TBP-LB1L-A	550M	TX:1550 / RX:1310	MM WDM-B	LC		
	EX-1250TBP-MB4L-A	10KM	TX:1310 / RX:1550	SM WDM-A	LC		
	EX-1250TBP-KB4L-A	10KM	TX:1550 / RX:1310	SM WDM-B	LC		
	EX-1250TBP-MB5L-A	20KM	TX:1310 / RX:1550	SM WDM-A	LC		
	EX-1250TBP-KB5L-A	20KM	TX:1550 / RX:1310	SM WDM-B	LC		

*More Gigabit SFP options also available upon request.

Power Supply: (Optional)

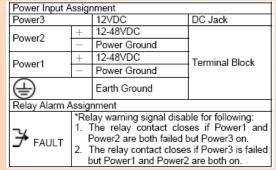
*Option A - The Terminal Block type external power supply are not included. Please order the following part numbers, as required: DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X X=1, 2,3,4,5

**Option B - The external power adapter and power cord are not included. Please order the following part numbers, as required: 41-136044-X X=1, 2,3,4,5

Installation Type: DIN Rail (mounting kit is included)

Optional Panel mount kit, part number: KP-AA96-480





e USTOD USTOD

VEI



Saratota Ltd Weltech Business Centre, Ridgeway, Welwyn Garden City, Hertfordshire, AL7 2AA Tel 0845 500 1447 Fax 0845 500 1451 e-mail etherwan@saratota.co.uk web www.etherwan-direct.co.uk



Specifications

Technology

Standards: • IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX,

Gigabit

EL9020

- IEEE802.3x Forward and Filtering Rate:
- 1,488,100pps for 1000Mbps
- Power
- Input:

Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
 Power Consumption:

10.56W, 0.88A@12VDC, 0.44A@24VDC, 0.22A@48VDC
 Overload Current Protection:

Present

Reverse Polarity Protection:

Present

Mechanical

- Casing:
- Aluminium case
- IP30
- Dimensions
- 50mm (W) x 110mm (D) x 135mm (H) (1.97" (W) x 4.33" (D) x 5.31" (H))

Weight

- 0.8Kg (1.76lbs.)
- nstallation:
- DIN-Rail (Top hat type 35mm), Panel, Rack Mounting Interface

Ethernet Por

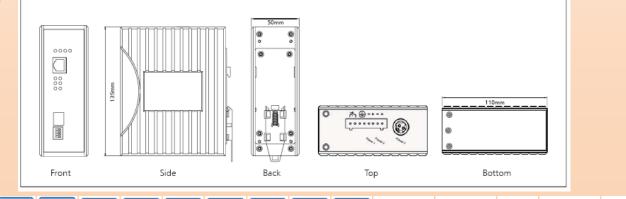
- 10/100/1000BASE-TX: 1 port
- Gigabit SFP: 1 port
- LED Indicators:
- Per Unit: Power Status (Power1, Power2, Power3, Fault), LFPT
- Per Port: 10/100/1000TX: Link/Activity, Speed, Full-duplex/Collision
 Circult SED: Link/Activity
- Gigabit SFP: Link/Activity

Relay contact rating with current 1A@30VDC, 0.5A@120VAC

Environment

- Operating Temperature:
 -40°C to 75°C (-40°F to 167°F)
- Tested @ -40°C to 85°C (-40°F to 185°F)
- Storage Temperature
- -40°C to 85°C (-40°F to 185°F)
- Ambient Relative Humidity
- 5% to 95% (non-condensing)

Diagrams







Saratota Ltd Weltech Business Centre, Ridgeway, Welwyn Garden City, Hertfordshire, AL7 2AA Tel 0845 500 1447 Fax 0845 500 1451 e-mail etherwan@saratota.co.uk web www.etherwan-direct.co.uk

Regulatory Approvals:

- Manufactured in an ISO9001 facility
- Manufactured Safety:
- UL508
- EMI:
- FCC Part 15, Class A
- VCCI, Class A
- EN61000-6-3
- EN55022
- EN61000-3-2
- EN61000-3-3
- EMS: • EN61000-6-2
- EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B
- EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 2.7GMHz; 80% AM Criteria A
- EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B
- EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B
- EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
- EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A
 Environmental Test Compliance:
- Environmental Test Compliance:
- IEC60068-2-6 Fc (Vibration Resistance)
 5g @ 10~150 KHz, Amplitude 0.35mm (Operation/Storage/Transport)
- IEC60068-2-27 Ea (Shock)
 25g @ 11ms (Half-Sine Shock Pulse; Operation)
 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)
- IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)