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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Industrial Gigabit Ethernet to Fiber Converter and Repeater Combo

EF24 Series



Feature Highlights

- Cut-Through Forwarding Mode
- Available in both SC and SFP Fiber Connectors
- Redundant Power Input
- Jumbo packets up to 9K bytes
- Link Fault Pass-Through (LFP) and Link Loss Carry Forward
- Operating Temperature : -10°C ~ 70°C
- Works in Media Converter Mode or Fiber Repeater Mode

Product Description

EF24 Series Industrial Gigabit Ethernet to Fiber Converter and Repeater Combo provide media conversion between 10/100/1000 BASE-T(X) and 100/1000 BASE-F(X) (available in both SC and SFP fiber connectors) or media extension in 100/1000 BASE-F(X).

EF24 Series comes with a DIP switch to configure or enable the more advanced functions including the fiber speed, fiber auto negotiation, link fail pass-through, terminal/center device, power saving, jumbo frame, and cut-through forwarding to reach the maximum flexibility.

Specification		
Technology		
Standards	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-T(X) and 100BASE-FX IEEE 802.3ab for 1000BASE-T IEEE 802.3z for 1000BASE-X	
Interface		
RJ45 Ports	10/100/1000BASE-T(X) auto negotiation speed	
Fiber Ports	100/1000BASE-F(X) or SFP Slot	
LED Indicators	PWR1, PWR2, CT-TML, Fx1_Link, Fx2_Link, Fx1_OAM, FP/MC, Fx_LLCF, Tx_LLCF	
DIP Switch	Media Converter / Repeater mode, Fiber Speed mode, Link Transparency, TS-1000 Terminal / Center mode, Power Save, Fiber Auto Negotiation, Jumbo Frame, Cut-through	
Power Management		
Input Voltage	9-48 VDC	
Input Current	Max. 0.3A @ 9VDC	
Connector	Removable 5-pin Terminal Block	
Reverse Polarity Protection	Present	
Physical Characteristics		
Housing	Metal, IP30 protection	
Dimensions(W x H x D)	32mm x 90mm x 110mm (1.26 x 3.54 x 4.33 in)	
Weight	EF24-1G-2Fm-SC-550M / EF24-1G-2Fs-SC-10 : 330g EF24-1G-2SFP : 340g	
Installation	DIN-Rail, Wall-Mount (optional kit)	
Environmental Limits		
Operating Temperature	-10°C ~ 70°C (14°F ~ 158°F)	
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)	
Ambient Relative Humidity	5 ~ 95%, 55°C (non-condensing)	
Optical Fiber Specifications		
Mode	Multi-mode	Single-mode
Distance	550M	10KM
Bit Rate	1250Mbps	1250Mbps
Wavelength (nm)	850	1310
Application	1000Base-SX	1000Base-LX
Tx Power (dBm)	-9.5~-4	-9.5~-3
Rx Sensitivity (dBm)	< -18	< -20
Remark	EF24-1G-2Fm-SC-550M	EF24-1G-2Fs-SC-10

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Regulatory Approvals

Safety	CB			
EMC	FCC Part 15, Subpart B, Class A EN55032 EN 61000-3-2 EN 61000-3-3 EN 55024			
Test	Item	Value	Level	
IEC 61000-4-2	ESD	Contact Discharge	±6KV	3
		Air Discharge	±8KV	3
IEC 61000-4-3	RS	80-1000MHz	10 V/m	3
IEC 61000-4-4	EFT	AC Power Port	±2.0KV	3
		DC Power Port	±2.0KV	3
		Signal Port	±1.0KV	3
IEC 61000-4-5	Surge	AC Power Port	Line-to Line±1.0KV	3
		AC Power Port	Line-to Earth±2.0KV	3
		DC Power Port	Line-to Line±1.0KV	3
		Signal Port	Line-to Earth±1.0KV	3
IEC 61000-4-6	CS	Conducted(Enclosure)	3 Vrms	2
IEC 61000-4-8	PFMF	(Enclosure)	AC 50/60 Hz 10 A/m	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock	MIL-STD-810F Method 516.5			
Drop	MIL-STD-810F Method 516.5			
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2			
RoHS	Yes			
MTBF	372,537.84 hrs / 42.52 years (25°C)			
Warranty	5 years			

Ordering Information

EF24-1G-2Fm-SC-550M	Industrial Gigabit Ethernet-to-Fiber Media Converter and Repeater, multimode, SC connector, Link Fault Pass-Through, Auto Speed, 550 M
EF24-1G-2Fs-SC-10	Industrial Gigabit Ethernet-to-Fiber Media Converter and Repeater, single-mode, SC connector, Link Fault Pass-Through, Auto Speed, 10 KM
EF24-1G-2SFP	Industrial Gigabit Fast Ethernet-to-Fiber Media Converter and Repeater, Link Fault Pass-Through, Auto Speed, SFP

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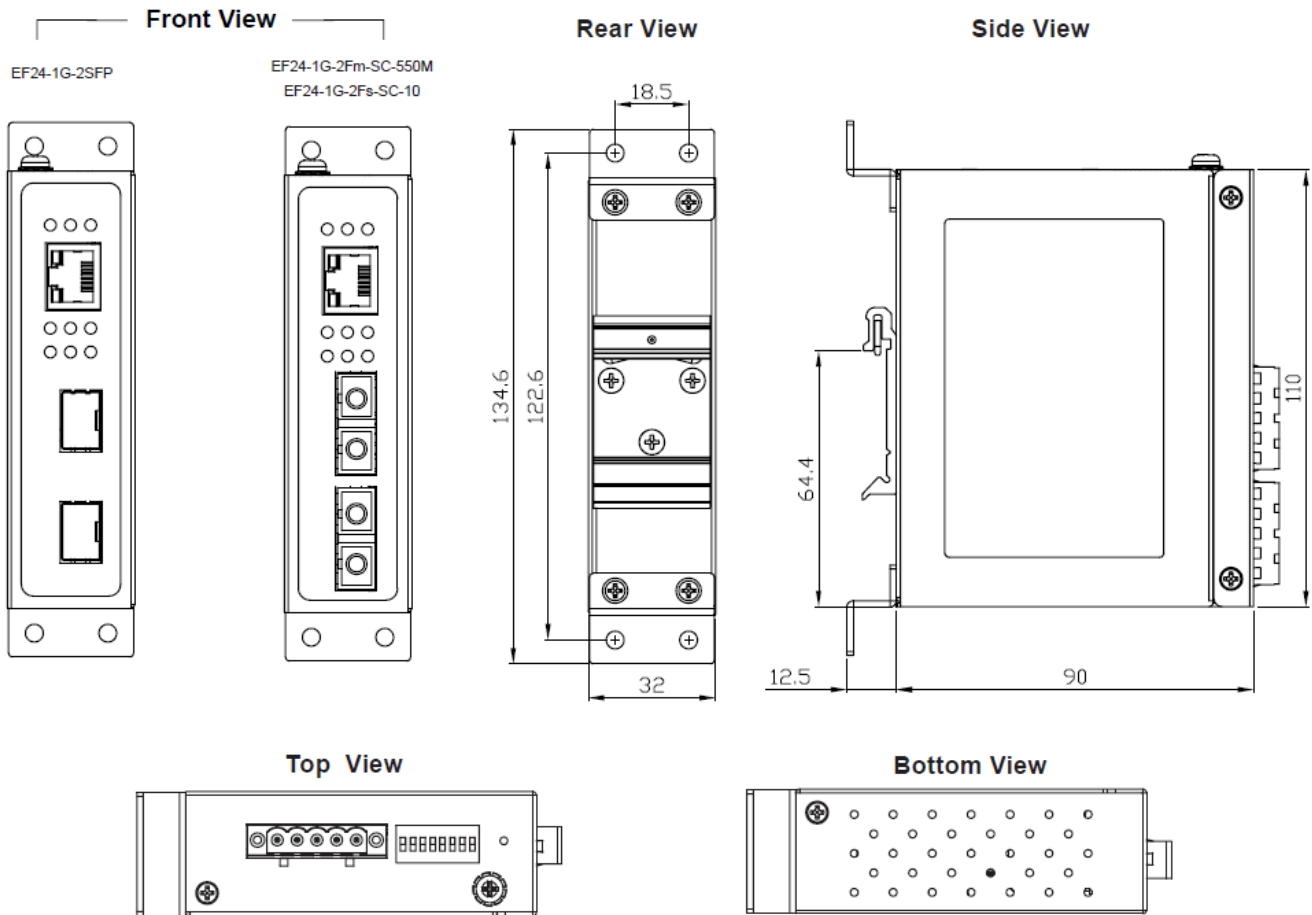
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V2.0

Optional Accessories

APU10-108	Y-Type power adaptor,100-240VAC input,0.41A @ 24VDC output, US plug
APU11-108	Y-Type power adaptor,100-240VAC input,0.41A @ 24VDC output, EU plug
WMK-315-Black	Aluminum Wall Mount Kit, Black
LM28-C3S-TI-N	SFP Transceiver, 1250Mbps, 850nmVCSEL, Multi-mode, 550m, 3.3V, -20~85C
LM38-C3S-TI-N	SFP Transceiver, 1250Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85C
LS38-C3S-TI-N	SFP Transceiver, 1250Mbps, 1310nmFP, Single-mode, 10km, 3.3V, -40~85C
LS38-C3L-TI-N	SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85C
LM38-A3S-TI-N	SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40~85C
LS38-A3S-TI-N	SFP Transceiver, 155Mbps, 1310nmFP, Single-mode, 30km, 3.3V, -40~85C

Mechanical Dimensions



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