Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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

Product Description

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

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(X) 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, F_Mode, Fx_Link, LLCF_ON, Test, Tx_LLCF, Fx_LLCF
DIP Switch	Media Converter mode, 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-1Fm-SC-550M / EF24-1G-1Fs-SC-10 : 320g EF24-1G-1SFP : 330g
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

	Multi-mode	Single-mode
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-1Fm-SC-550M	EF24-1G-1Fs-SC-10

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	415,681.88 hrs / 47.45 years (25°C)
Warranty	5 years

Ordering Information

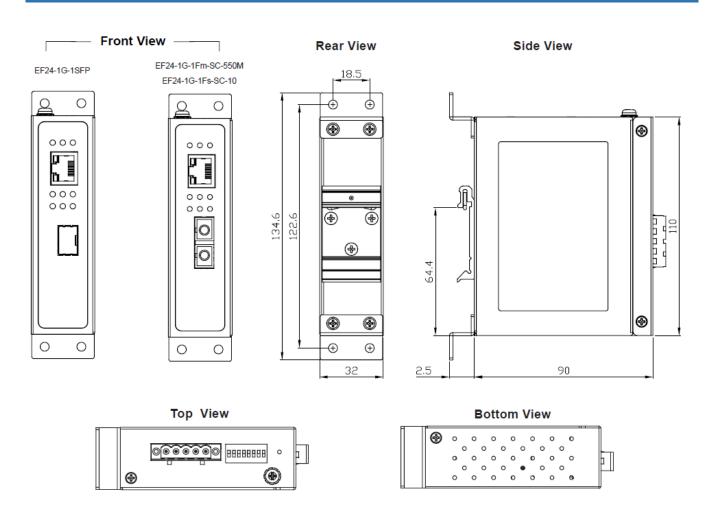| EF24-1G-1Fm-SC-550M	Industrial Gigabit Ethernet-to-Fiber Media Converter, multimode, SC connector, Link Fault Pass-Through, Auto Speed, 550 M
EF24-1G-1Fs-SC-10	Industrial Gigabit Ethernet-to-Fiber Media Converter, single-mode, SC connector, Link Fault Pass-Through, Auto Speed, 10 KM
EF24-1G-1SFP	Industrial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

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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