



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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Industrial 1000BaseT(X) to 1000BaseFX Media Converters

■ ■ EF23G Series

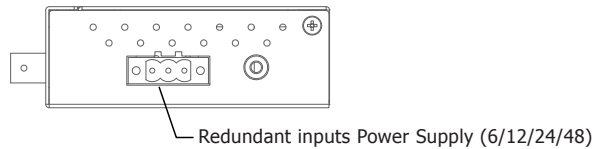
RoHS compliant

- Supports Auto MDI/MDI-X
- Supports Multi-mode 550m, Single-mode 10KM
- Operating temperature -10~70°C

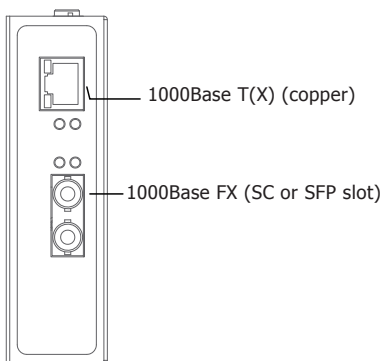
The EF23G Series Industrial Media Converter provide industrial media conversion between 1000BaseT(X) and 1000BaseFX (SC connector or SFP Slot); connection options include multi-mode SC connector (500m), and single- mode SC connector (10km). The EF23G Series media converter is designed for harsh industrial environments, and complies with FCC/CE standards; it also has an operating temperature range from -10 to 70°C.

Mechanical

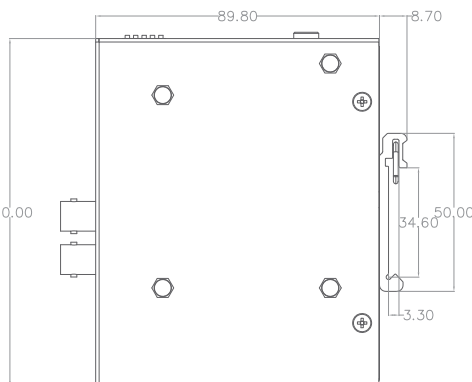
Top view



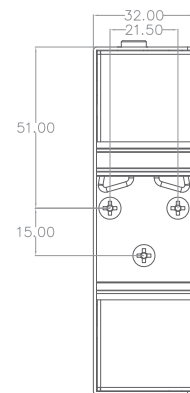
Front view



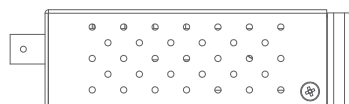
Side view and Panel Mounting View



Rear view



Bottom View



Specifications		
Technology		
Standards	IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX	
Interface		
RJ45 Ports	1000BaseT(X)	
Fiber Ports	1000BaseFX (SC connector or SFP slot)	
LED Indicators	PWR,TX_LINK,TX_ACT,FX_LINK/ACT	
Power Requirements		
Input Voltage	6~48 VDC	
Input Current	0.5A max, 6 VDC	
Connection	Removable 3-pin Screw Terminal Block	
Reverse Polarity Protection	Present	
Physical Characteristics		
Housing	Metal, IP50 protection	
Dimension	32 x 90 x 110 mm (1.26 x 3.54 x 4.33 in)	
Weight	510g	
Installation	DIN-Rail mounting, wall mounting(optional)	
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 to 95%, 55°C (non-condensing)	
Regulatory Approvals		
EMI	FCC Part15, CISPR (EN55022) Class A	
EMS	EN61000-4-2 (ESD) Level 3, Criteria B	
	EN61000-4-3 (RS) Level 2, Criteria A	
	EN61000-4-4 (EFT) Level 3, Criteria A	
	EN61000-4-5 (Surge) Level 3, Criteria B/A	
	EN61000-4-6 (CS) Level 2, Criteria A	
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	554844 hrs (63.33Years) (Data base: MIL-HDBK-217F, GB 25°C)	
Warranty Period	5 Years	
Optical Fiber Specifications		
P/N	1000Base	
	Multi-mode	Single-mode
Distance	300/500m	10Km
Bit rate(Mbps)	1250	1250
Wavelength(nm)	1310(VCSEL)	1310(FP LD)
Application	1000Base-SX	1000Base-LX
TX Power(dBm)	-4~9.5	-3~9.5
RX Sens.(dBm)	<-18	<-20
Remark	EF23-1G-1Fm-SC-500M	EF23-1G-1Fs-SC-10
Ordering Information		
EF23-1G-1Fm-SC-500M	1000BaseT(X) to 1000BaseFX Media Converter, Multi-mode, SC connector	
EF23-1G-1Fs-SC-10	1000BaseT(X) to 1000BaseFX Media Converter, Single mode, SC connector	
EF23-1G-1Fs-SFP	1000BaseT(X) to 1000BaseSX/LX/LHX/ZX Media Converter, SFP Slot	
Optional Accessories		
US315-12(US-TB3)	3-pin Terminal block (5.08 mm) power adaptor, 100-240 VAC input, 1.25A @ 12 VDC output, US plug	
USE315-12(EU-TB3)	3-pin Terminal block (5.08 mm) power adaptor, 100-240 VAC input, 1.25A @ 12 VDC output, EU plug	
AD1024-24F	24W/1A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input	
AD1048-24FS	48W/2A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input	
AD1072-24F	72W/3A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input	
AD1100-24F	100W/4A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input	
AD1120-24F	120W/5A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input	
AD1120-48F	120W/2.5A DIN-Rail 48 VDC power supply with universal 100~240 VAC/120~370 VDC input	
2ESDP-03P	3-pin 5.08mm Terminal Block with 180° Angle	

SFP Transceiver	
LM28-C3S-TI-N	1250Mbps, 850nmVCSEL, Multi-mode, 550m, 3.3V, -20~85C
LM38-C3S-TI-N	1250Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85C
LS38-C3S-TI-N	1250Mbps, 1310nmFP, Single-mode, 10km, 3.3V, -40~85C
LS38-C3L-TI-N	1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85C

Regulatory Approvals and Environmental Type Tests

EMI Immunity Type Tests

Test	Description	Test Levels	Severity Levels
FCC part 15	Subpart B	—	Class A
EN55022	2006+A1:2007	—	Class A

EMS Tests

Test	Description	Test Levels	Severity Levels	
IEC61000-4-2	ESD	Contact discharge	6KV, Criterion A	Level 3
		Air discharge	8KV, Criterion B	Level 3
IEC61000-4-3	RS	Enclosure ports	3V/m(un-modulated, r.m.s) 80% AM 1KHz, Criterion A	Level 2
IEC61000-4-4	EFT	Power Port	±2KV, Criterion A	Level 3
		Single port	±1KV, Criterion A	Level 3
IEC61000-4-5	Surge	Power Port	±2KV, Criterion A	Level 3
		Single Port	±2KV, Criterion B	Level 3
IEC61000-4-6	CS	Power Port	3V/m(un-modulated, r.m.s) 80% AM 1KHz, Criterion A	Level 2
		Single Port		Level 2

Environmental Type Test

Test	Description	Test Levels	Severity Levels	
MIL-STD-810F	Shock	Impact acceleration& pulse duration	40g@11ms	—
MIL-STD-810F	Freefall	8 corners, 12 edges, 6 faces	122cm	—
MIL-STD-810F	Vibration	Packaged Random waveform	x:2.4 Grms y:1.28 Grms z:3.851.04Grms	—
		Operating Random waveform	x:0.740 Grms y:0.204 Grms z:1.04Grms	—

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