



DMC-FXXXXGX Series

Ethernet to Fiber Media Converter / Repeater

Feature Highlight

- Cut-Through Forwarding Mode
- Redundant Power Input
- Link Fault Pass-Through (LFP) and Link Loss Carry Forward
- Jumbo packets up to 9K bytes
- Operating Temperature: -10°C ~ 70°C
- Works in Media Converter Mode or Fiber Repeater Mode (DMC-FXXXXG2 Only)

The DMC-FXXXXGX series of industrial media converters offer Gigabit Ethernet to Fiber conversion or Repeater function (DMC-FXXXXG2 only). With the help of DIP Switch, one can easily enable or disable advance functions such as Link Fault Pass Through, Cut Through Mode & Jumbo Frame. The Industrial EMC & wide temperature support enables these devices to be use in harsh industrial environments.

Technical Specifications			
Series	DMC-FXXXXGX1 Series		
Model Number	DMC-F550G1	DMC-F1000G1	DMC-F1000G1-SFP
Interface			
RJ-45 Ports	10/100/1000 Base-T		
Fiber Ports	1000 Base-SX Multi-Mode up to 550 Mtr.	1000 Base-LX Single-Mode up to 10 Km.	1000 Base-X SFP
DIP Switch	Cut-through, Jumbo Frame, LFPT,		
LED Indicators	PWR1, PWR2, Link, Fx_LLCF, Tx_LLCF		
Power requirements			
Power Input	9 ~ 48 VDC		
Input Current	Max. 0.3A @ 9 VDC		
Reverse Polarity Protection	Yes		
Optical Fiber Specifications			
Single Mode	Distance	10 Km.	NA
	Wavelength	1310 nm	NA
	Tx Power	-9.5 ~ 4 dBm	NA
	Rx Sensitivity	< -18 dBm	NA
Multi Mode	Distance	550 Mtr.	NA
	Wavelength	850 nm	NA
	Tx Power	-9.5 ~ 3 dBm	NA
	Rx Sensitivity	< -20 dBm	NA
Physical Characteristics			
Housing	IP-30, Metal Enclosure		
Dimensions	32mm x 90mm x 110mm (1.26 x 3.54 x 4.33 in)		
Weight	Max. 330 g.		
Mounting	DIN-Rail, Wall Mount (Optional)		
Environmental Parameters			
Operating Temperature	-10° to 70° C		
Storage Temperature	-40° to 85° C		
Ambient Relative Humidity	5 ~ 95%, 55° C (Non Condensing)		

Technical Specifications			
Series	DMC-FXXXXG2 Series		
Model Number	DMC-F550G2	DMC-F1000G2	DMC-F1000G2-SFP
Interface			
RJ-45 Ports	10/100/1000 Base-T		
Fiber Ports	2 1000 Base-SX Multi-Mode up to 550 Mtr.	2 1000 Base-LX Single-Mode up to 10 Km.	2 1000 Base-X SFP
DIP Switch	Media Converter / Repeater Mode, Terminal / Centre Mode, Cut-through, Jumbo Frame, LFPT		
LED Indicators	PWR1, PWR2, CT-TML, Link, Fx_LLCF, Tx_LLCF		
Power requirements			
Power Input	9 ~ 48 VDC		
Input Current	Max. 0.3A @ 9 VDC		
Reverse Polarity Protection	Yes		
Optical Fiber Specifications			
Single Mode	Distance	10 Km.	NA
	Wavelength	1310 nm	NA
	Tx Power	-9.5 ~ 4 dBm	NA
	Rx Sensitivity	< -18 dBm	NA
Multi Mode	Distance	550 Mtr.	NA
	Wavelength	850 nm	NA
	Tx Power	-9.5 ~ 3 dBm	NA
	Rx Sensitivity	< -20 dBm	NA
Physical Characteristics			
Housing	IP-30, Metal Enclosure		
Dimensions	32mm x 90mm x 110mm (1.26 x 3.54 x 4.33 in)		
Weight	Max. 340 g.		
Mounting	DIN-Rail, Wall Mount (Optional)		
Environmental Parameters			
Operating Temperature	-10° to 70° C		
Storage Temperature	-40° to 85° C		
Ambient Relative Humidity	5 ~ 95%, 55° C (Non Condensing)		

Standard / Certifications / Compliance	
Safety	CB
EMC	EN55024, EN55032, EN61000-3-2, EN61000-3-3, FCC Part 15, Subpart B, Class A
EMS	IEC-61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (PFMF) IEC61000-4-11 (DIP)
Shock	MIL-STD-810F Method 516.5
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2
Freefall	MIL-STD-810F Method 516.5
ROHS	Yes
MTBF	372500 Hrs.

Ordering Information	
Part Code	Description
DMC-F550G1	Gigabit Ethernet to Fiber Media Converter, 10/100/1000 Base-T to 1000 Base-SX Multi-Mode, up to 550 Mtr. Op. Temp. -10° to 70° C.
DMC-F1000G1	Gigabit Ethernet to Fiber Media Converter, 10/100/1000 Base-T to 1000 Base-LX Single Mode, up to 10 Km. Op. Temp. -10° to 70° C.
DMC-F1000G1-SFP	Gigabit Ethernet to Fiber Media Converter, 10/100/1000 Base-T to 100/1000 Base-X SFP. Op. Temp. -10° to 70° C.
DMC-F550G2	Gigabit Ethernet to Fiber Media Converter / Repeater, 10/100/1000 Base-T to 1000 Base-SX Multi-Mode, up to 550 Mtr. Op. Temp. -10° to 70° C.
DMC-F1000G2	Gigabit Ethernet to Fiber Media Converter / Repeater, 10/100/1000 Base-T to 1000 Base-LX Single Mode, up to 10 Km. Op. Temp. -10° to 70° C.
DMC-F1000G2-SFP	Gigabit Ethernet to Fiber Media Converter / Repeater, 10/100/1000 Base-T to 100/1000 Base-X SFP. Op. Temp. -10° to 70° C.

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