

KEY FEATURES

- 1*10/100Base-TX to 1*100Base-X SFP or fiber module inbuilt
- PoE version up to 90W output, meeting IEEE802.3af/at/bt standards
- Industrial Hardened grade, designed to operate in harsh environmental conditions
- Operating temperature from -40°C to +75°C
- Wide range & Redundant power inputs (non-PoE & 30W PoE)
- Power boost
- Metal case, no fan design
- DIN-Rail or Wallmount
- 5 years warranty



INTRODUCTION

The MCF-D5 series Industrial grade Ethernet Media Converters are designed to transmit and receive 10/100Mbps data over optical fiber through user selectable SFP module or fiber module inbuilt options. The PoE versions, meeting the IEEE802.3af/at/bt standards, provides PoE++ as Power Sourcing Equipment (PSE) up to 90W. Housed in rugged metal Din-rail or wall-mountable enclosure, no fan design with extreme temperatures operation and redundant power inputs, makes those media converters a perfect choice for critical environments, such as security, transportation, airports, industrial networking or even military applications.

SPECIFICATIONS

Model	MCF-D5	MCFP-D5	MCFP90-D5
Ports			
RJ45 ports and speed	1 * 10/100Base-TX		
Fiber ports and speed	1 * 100Base-X SFP or fiber module inbuilt		
Fiber Type, Connectors Max distance	For SFP slot refer to SFP module specifications For fiber module inbuilt – Singlemode or Multimode, Single or Dual fibers, SC or ST connectors, 2 or 20km transmission distance – see Fiber module inbuilt options tab		
Ethernet			
Processing type	Store and Forward		
Switching Bandwidth	2Gbps		
Max Packet Length	9K		
Packet Buffer	1M		
MAC Address Table	2K		
PoE	Not supported	IEEE802.3af/at Max output 30W	IEEE802.3af/at/bt Max output 90W
Standards	IEEE802.3, IEEE802.3u		

Model	MCF-D5	MCFP-D5	MCFP90-D5
Environmental			
Operating Temperature	-40°C ~ +75°C		
Storage Temperature	-40°C ~ +85°C		
Relative Humidity	0 ~ 90% non-condensing		
MTBF	480.000h		
Electrical and Physical			
Power Input	Redundant 12-48VDC		Redundant 48-57VDC
Max Power consumption	5W	35W (5W without PoE)	95W (5W without PoE)
Cooling	Natural cooling, no fan design		
Dimensions (H * D * W)	95 * 70 * 30mm		
Weight	~250g		
Mounting	Din-rail / Wallmount		
Certification			
Standards	Surge protection for power ports: 6KV (EN 61000-4-5) Surge protection for Ethernet ports: 6KV (EN 61000-4-5) Vibration: IEC 60068-2-6:2007 Shock: IEC 60068-2-27:2008 Free fall: IEC 60068-2-32:1975 CE 2014/30/EU EMC, EN 55032:2015/A11:2020, EN 55035:2017/A11:2020 EN 61000-3-2:2019/A2:2024, EN 61000-3-3:2013/A2:2021/AC:2022-01 EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-4:2012 EN 61000-4-5:2014/A1:2017, EN 61000-4-6:2023 CE 2014/35/EU LVD, EN IEC 62368-1:2024 FCC Part 15, Subpart B:2016, ANSI C63.4:2014 RoHS 2011/65/EU, (EU) 2015/863, (EU) 2017/2102		

ORDERING INFORMATION

Model name	Description
MCF-D5	Industrial Ethernet media converter 1*10/100Base-TX RJ45 to 1*100Base-X SFP, redundant 12-48VDC inputs, Din-Rail
MCF-D5-xyz*	Industrial Ethernet media converter 1*10/100Base-TX RJ45 to 1*100Base-X fiber module inbuilt, redundant 12-48VDC inputs, Din-Rail
MCFP-D5	Industrial Ethernet media converter 1*10/100Base-TX RJ45 PoE to 1*100Base-X SFP, redundant 12-48VDC inputs, Din-Rail
MCFP-D5-xyz*	Industrial Ethernet media converter 1*10/100Base-TX RJ45 PoE to 1*100Base-X fiber module inbuilt, redundant 12-48VDC inputs, Din-Rail
MCFP90-D5	Industrial Ethernet media converter 1*10/100Base-TX RJ45 90W PoE to 1*100Base-X SFP, redundant 48-57VDC inputs, Din-Rail
MCFP90-D5-xyz*	Industrial Ethernet media converter 1*10/100Base-TX RJ45 90W PoE to 1*100Base-X fiber module inbuilt, redundant 48-57VDC inputs, Din-Rail

Power supply is not included and to be purchased separately

For MCF-D5, MCFP-D5 and MCFP90-D5 models - SFP module is not included and to be purchased separately

-xyz* fiber module inbuilt options in following tab

FIBER MODULE INBUILT OPTIONS

-xyz* replaced by:	Fiber type	Fiber count	Wavelength, nm	Fiber Connectors	Max Distance
-MC	Multi Mode	2	1310	Dual SC	2km
-MCA	Multi Mode	1	1310 Tx / 1550 Rx	Single SC	2km
-MCB	Multi Mode	1	1550 Tx / 1310 Rx	Single SC	2km
-SC	Single Mode	2	1310	Dual SC	20km
-SCA	Single Mode	1	1310 Tx / 1550 Rx	Single SC	20km
-SCB	Single Mode	1	1550 Tx / 1310 Rx	Single SC	20km
-MT	Multi Mode	2	1310	Dual ST	2km
-MTA	Multi Mode	1	1310 Tx / 1550 Rx	Single ST	2km
-MTB	Multi Mode	1	1550 Tx / 1310 Rx	Single ST	2km
-ST	Single Mode	2	1310	Dual ST	20km
-STA	Single Mode	1	1310 Tx / 1550 Rx	Single ST	20km
-STB	Single Mode	1	1550 Tx / 1310 Rx	Single ST	20km

For example: **MCFP-D5-SC** Industrial Ethernet media converter 1*10/100Base-TX RJ45 PoE to 1*100Base-X fiber module inbuilt - Single mode, 1310nm, dual SC connectors, 20km, redundant 12-48VDC inputs, Din-Rail