



ikings Technology

MCF/MCG-C1 series

Ethernet Media Converter Card

KEY FEATURES

- MCF-C1 series: 1*10/100Base-TX to 1*100Base-X
- MCG-C1 series: 1*10/100/1000Base-TX to 1*1000Base-X
- Operating temperature from -10°C to +60°C
- Options with SFP slot and fiber module inbuilt available
- Wide selection of fiber connectors - LC, SC or ST
- Designed to be mounted in RM-C1 Rack Mount Chassis
- Plug & Play - no configuration required
- 3 years warranty



INTRODUCTION

Ethernet Media Converter Cards are designed to be used for optical signals conversion to copper Ethernet at the receiving end. MCF-C1 works on 100Mbps, while MCG-C1 - on 1000Mbps fiber links. Those cards can come with SFP slots for your free selection of fiber type, or already with inbuilt Singlemode or Multimode fiber modules with SC or ST connectors. Up to 16 such cards installed in RM-C1 Rack Mount Chassis with dual power supplies, provides convenient, space saving and stable Ethernet conversion at your Control Room end.

SPECIFICATIONS

Model	MCF-C1 series	MCG-C1 series
Ports		
RJ45 ports and speed	1 * 10/100Base-TX	1 * 10/100/1000Base-TX
Fiber ports and speed	1 * 100Base-X SFP or fiber module inbuilt	1 * 1000Base-X SFP or fiber module inbuilt
Fiber Type, Connectors Max distance	For SFP slot refer to SFP module specifications For fiber inbuilt – Singlemode or Multimode, SC or ST, 1/2/20km – see Ordering Information tab	
Ethernet		
Processing type	Store and Forward	
Switching Bandwidth	1Gbps	2Gbps
Packet Buffer	768K	1M
MAC Address Table	1K	2K
PoE	Not supported	
Standards	IEEE802.3, IEEE802.3u	

Model	MCF-C1 series		MCG-C1 series	
Environmental				
Operating Temperature	-10°C ~ +60°C			
Storage Temperature	-40°C ~ +85°C			
Relative Humidity	0 ~ 90% non-condensing			
MTBF	410.000h			
Electrical and Physical				
Power Input	From RM-C1 Rack Mount Chassis dual PSU			
Max Power consumption	3W		4W	
Dimensions (H * D * W)	87 * 130 * 25mm (with screws)			
Weight	~300g			
Mounting	Card, to be mounted in RM-C1 Rack Mount Chassis (up to 16 cards per 1 chassis)			
Certification				
Standards	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	Speed	Fiber type	Fiber count	Wavelength, nm	Connector	Distance
MCF-C1	100Mbps	SFP	-	-	-	-
MCF-C1-MC	100Mbps	Multi Mode	2	1310	SC	2km
MCF-C1-MCA	100Mbps	Multi Mode	1	1310 Tx / 1550 Rx	SC	2km
MCF-C1-MCB	100Mbps	Multi Mode	1	1550 Tx / 1310 Rx	SC	2km
MCF-C1-SC	100Mbps	Single Mode	2	1310	SC	20km
MCF-C1-SCA	100Mbps	Single Mode	1	1310 Tx / 1550 Rx	SC	20km
MCF-C1-SCB	100Mbps	Single Mode	1	1550 Tx / 1310 Rx	SC	20km

ORDERING INFORMATION (CONTINUE)

Model Name	Speed	Fiber type	Fiber count	Wavelength, nm	Connector	Distance
MCF-C1-MT	100Mbps	Multi Mode	2	1310	ST	2km
MCF-C1-MTA	100Mbps	Multi Mode	1	1310 Tx / 1550 Rx	ST	2km
MCF-C1-MTB	100Mbps	Multi Mode	1	1550 Tx / 1310 Rx	ST	2km
MCF-C1-ST	100Mbps	Single Mode	2	1310	ST	20km
MCF-C1-STA	100Mbps	Single Mode	1	1310 Tx / 1550 Rx	ST	20km
MCF-C1-STB	100Mbps	Single Mode	1	1550 Tx / 1310 Rx	ST	20km
MCG-C1	1Gbps	SFP	-	-	-	-
MCG-C1-MC	1Gbps	Multi Mode	2	1310	SC	1km
MCG-C1-MCA	1Gbps	Multi Mode	1	1310 Tx / 1550 Rx	SC	1km
MCG-C1-MCB	1Gbps	Multi Mode	1	1550 Tx / 1310 Rx	SC	1km
MCG-C1-SC	1Gbps	Single Mode	2	1310	SC	20km
MCG-C1-SCA	1Gbps	Single Mode	1	1310 Tx / 1550 Rx	SC	20km
MCG-C1-SCB	1Gbps	Single Mode	1	1550 Tx / 1310 Rx	SC	20km
MCG-C1-MT	1Gbps	Multi Mode	2	1310	ST	1km
MCG-C1-MTA	1Gbps	Multi Mode	1	1310 Tx / 1550 Rx	ST	1km
MCG-C1-MTB	1Gbps	Multi Mode	1	1550 Tx / 1310 Rx	ST	1km
MCG-C1-ST	1Gbps	Single Mode	2	1310	ST	20km
MCG-C1-STA	1Gbps	Single Mode	1	1310 Tx / 1550 Rx	ST	20km
MCG-C1-STB	1Gbps	Single Mode	1	1550 Tx / 1310 Rx	ST	20km

OTHER

SFP module is not included and to be purchased separately