

KEY FEATURES

- 1*10/100/1000Base-TX to 1*100/1000Base-FX
- Ultra Small design, only 62*44*18mm
- Fiber inbuilt, SM/MM fiber type, ST/SC connectors available
- Fiber port with auto speed detection function
- Operating temperature from -10°C to +60°C
- Power input from 5 to 15VDC
- 5VDC Power adaptor included
- Robust Metal case, no fan design
- 3 years warranty



INTRODUCTION

This Ultra Small Ethernet Media Converter is designed to transmit and receive Ethernet signal over optical fiber. Fiber port auto detects network speed, which makes this unit universal for 100Mbps and 1Gbps fiber networks. Versions for Singlemode and Multimode fiber type, single and dual fiber cores, SC and ST fiber connectors available. Housed in Ultra Small robust metal enclosure, no fan design with up to +60°C temperature operation, makes those media converters a perfect choice for your applications, where installation spaces are limited and higher environment temperatures expected.

SPECIFICATIONS

Model	MCG-S1 series
Ports	
RJ45 ports and speed	1 * 10/100/1000Base-TX
Fiber ports and speed	1 * 100/1000Base-FX
Fiber Type, Connectors	Singlemode or Multimode, SC or ST
Max distance	1/20km - check Ordering Information tab
Ethernet	
Processing type	Store and Forward
Max Packet Length	9K
MAC Address Table	2K
PoE	Not supported
Standards	IEEE802.3, IEEE802.3u IEEE802.3ab, IEEE802.3z

Model	MCG-S1 series
Environmental	
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-40°C ~ +75°C
Relative Humidity	0 ~ 90% non-condensing
MTBF	410.000h
Electrical and Physical	
Power Input	5-15VDC, USB Type C
Max Power consumption	3W
Cooling	Natural cooling, no fan design
Dimensions	62 * 44 * 18mm (51 * 44 * 18mm - metal box only, without fiber connectors)
Weight	50g (~150g including PA)
Mounting	Desktop / Wallmount with a help of included Velcro tape
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	Fiber type	Fiber count	Wavelength, nm	Connector	Distance
MCG-S1-MC	Multi Mode	2	1310	SC	1km
MCG-S1-MCA	Multi Mode	1	1310 Tx / 1550 Rx	SC	1km
MCG-S1-MCB	Multi Mode	1	1550 Tx / 1310 Rx	SC	1km
MCG-S1-SC	Single Mode	2	1310	SC	20km
MCG-S1-SCA	Single Mode	1	1310 Tx / 1550 Rx	SC	20km
MCG-S1-SCB	Single Mode	1	1550 Tx / 1310 Rx	SC	20km

ORDERING INFORMATION (CONTINUE)

Model Name	Fiber type	Fiber count	Wavelength, nm	Connector	Distance
MCG-S1-MT	Multi Mode	2	1310	ST	1km
MCG-S1-MTA	Multi Mode	1	1310 Tx / 1550 Rx	ST	1km
MCG-S1-MTB	Multi Mode	1	1550 Tx / 1310 Rx	ST	1km
MCG-S1-ST	Single Mode	2	1310	ST	20km
MCG-S1-STA	Single Mode	1	1310 Tx / 1550 Rx	ST	20km
MCG-S1-STB	Single Mode	1	1550 Tx / 1310 Rx	ST	20km

OTHER

Wall-pluggable Power Adaptor (5VDC) is included