

# 1G Media Converter

## 1-Port 1G Media Converter – 1GBase-T to 1GBase-SX/LX (SC/LC, MM/SM)

### CMC-GTFX-XXXX Series 1G Media Converter

LC Model



SC Model



- ☑ Gigabit Ethernet Conversion
- ☑ Dual Interface Support
- ☑ Auto-Negotiation & MDI/MDI-X
- ☑ Advanced Network Performance
- ☑ Compact & Durable Design – Fanless metal
- ☑ Reliable Power & Protection
- ☑ Certified Safety & Compliance

## INTRODUCTION

The CMC-GTFX Media Converter Series is a Gigabit Ethernet Media Converter that converts 1Gbps copper Ethernet to 1Gbps SX/LX fiber. It supports IEEE 802.3 standards, auto-negotiation, VLAN tagging, jumbo frames (up to 16KB), and Link Fault Pass-Through (LFP) for improved network reliability. Designed for flexibility, it features a fanless metal enclosure, low power consumption (2W), and multiple mounting options. With built-in surge and ESD protection, and CE, FCC, and UKCA certifications, the CMC-GTFX Gigabit Ethernet Media Converter ensures stable, high-speed connectivity in a wide range of environments.

## PRODUCT SPECIFICATIONS

Interface	
10/100/1000Base-T(X) Ethernet TP Port	1
1000Base-SX/LX with Fiber Connector (Multi/Single Mode, SC/LC Connector)	1
System Performance	
Packet Buffer	384Kb
MAC Address Entity	1K
Jumbo Frame	16KB

Physical Characteristics	
Transmission Media	<b>TP:</b> 10/100/1000BaseT Cat 5, 5E, 6 UTP/STP, up to 100m  <b>1000Base-SX:</b> 62.5/125µm Multi Mode Fiber optic cable, up to 220m 50/125µm Multi Mode Fiber optic cable, up to 550m  <b>1000Base-LX:</b> 9/125µm Single Mode Fiber optic cable, up to 30Km
Dimension (W x H x D)	75 x 23 x 102 mm
LED	Power, 10/100M Link/Act, 1G Link/Act, Fiber Link/Act
DIP Switch	1 DIP switch for enable/disable LFP (Link Fault Pass Through)
Cooling	Fanless
Enclosure	Metal
Installation	Desktop / Wall Mount (Optional) / Chassis Install (Optional)
Weight	≈ 206g
Power Requirements	
Power Input	5 - 12V DC
Power Input Connector	DC Jack (Φ2.5mm)
Max. System Power Consumption	2 Watt
Environment Limits	
Operating Temperature	0 ~ 50°C
Storage Temperature	-20 ~ 80°C
Operating Humidity	Max. 90% RH (Non-condensing)
Certifications	
Electromagnetic Emissions (EMC)	CE, FCC, UKCA
Safety	EN62368-1
Protection	
ESD	DC Contact 4KV, Air 8KV
Surge	AC Line to Line 1KV, Line to Ground 2KV
Standard	
IEEE 802.3 – 10Base-T	●
IEEE 802.3u – 100Base-TX	●
IEEE 802.3ab – 1000Base-T	●
IEEE 802.3z – 1000Base-SX/LX	●
IEEE 802.3x – Flow Control	●



## Transmission Media Specifications

Model No	Wavelength	Media	Distance	TX Power (dBm)	RX Sensitivity (dBm)	Description
CMC-GTFX-SC	850	MMF	550m	-9.5 ~ -4	Max. -18	10/100/1000Base-T(X) to 1000Base-SX, MM 220/550m, SC
CMC-GTFX-SC10	1310	SMF	10Km	-9.5 ~ -3	Max. -20	10/100/1000Base-T(X) to 1000Base-LX, SM 10 km, SC
CMC-GTFX-SC30	1310	SMF	30Km	-4 ~ +3	Max. -23	10/100/1000 Base-T(X) to 1000Base-LX, SM 30 km, SC
CMC-GTFX-LC	850	MMF	550m	-9.5 ~ -4	Max. -17	10/100/1000 Base-T(X) to 1000Base-SX, MM 220/550m, LC
CMC-GTFX-LC10	1310	SMF	10Km	-9.5 ~ -3	Max. -20	10/100/1000 Base-T(X) to 1000Base-LX, SM 10 km, LC
CMC-GTFX-LC30	1310	SMF	30Km	-4 ~ +1	Max. -23	10/100/1000 Base-T(X) to 1000Base-LX, SM 30 km, LC

## PACKAGE CONTENTS

- 1 × 1G Media Converter Unit
- 1 × Power Adapter
- 1 × Quick Installation Guide

## WARRANTY

- Standard 1-Year Limited Warranty, unless otherwise specified by Sales.
- Optional Advance Replacement Warranty is available upon request

## ORDERING INFORMATION

Part Number	Descriptions
<b>CMC-GTFX-SC</b>	1G Media Converter, 10/100/1000Base-T(X) to 1000Base-SX, MM 220/550m, SC
<b>CMC-GTFX-SC10</b>	1G Media Converter, 10/100/1000Base-T(X) to 1000Base-LX, SM 10 km, SC
<b>CMC-GTFX-SC30</b>	1G Media Converter, 10/100/1000Base-T(X) to 1000Base-LX, SM 30 km, SC
<b>CMC-GTFX-LC</b>	1G Media Converter, 10/100/1000Base-T(X) to 1000Base-SX, MM 220/550m, LC
<b>CMC-GTFX-LC10</b>	1G Media Converter, 10/100/1000Base-T(X) to 1000Base-LX, SM 10 km, LC
<b>CMC-GTFX-LC30</b>	1G Media Converter, 10/100/1000Base-T(X) to 1000Base-LX, SM 30 km, LC
<b>(OPTIONAL)</b>	
<b>CMC-GTFX-WMK</b>	Wall Mount Kit for 1G Media Converter
<b>CMC-CH16-RPS</b>	16-Slot Media Converter Chassis with Redundant Power Supply

### Note:

- Please specify the required power plug type when ordering.
- For RJ-45 to fiber and back to RJ-45 conversion, two media converter units are required.

## CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

- **Website:** [www.dsgio.com](http://www.dsgio.com)
- **Email:** [sales.apac@dsgio.com](mailto:sales.apac@dsgio.com)

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