

# CM-600 Module Series

4-port Fast Ethernet interface modules for the EDS-600 Series



## Features and Benefits

- Modular design with 4-port copper/fiber combinations
- Hot-swappable media modules for continuous operation

## Certifications



## Introduction

The CM-600 Module Series has been designed for use with the EDS-600 Series. The CM-600 Series has a compact modular design with one slot that accommodates 4 ports, which support multiple media types including TX, MSC, SSC, and MST. The modular design ensures that the EDS-600 Series can meet multiple application requirements.

## Specifications

### Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	CM-600-4TX: 4 CM-600-1TX Series: 1 CM-600-2TX Series: 2  All models support: Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
100BaseFX Ports (multi-mode SC connector)	CM-600-4MSC: 4 CM-600-3MSC/1TX: 3 CM-600-2MSC/2TX: 2
100BaseFX Ports (multi-mode ST connector)	CM-600-4MST: 4

100BaseFX Ports (single-mode SC connector)	CM-600-4SSC: 4 CM-600-3SSC/1TX: 3 CM-600-2SSC/2TX: 2																																																		
Optical Fiber	<table border="1"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="3">100BaseFX</th> </tr> <tr> <th colspan="2">Multi-Mode</th> <th>Single-Mode</th> </tr> <tr> <th rowspan="2">Fiber Cable Type</th> <th rowspan="2">OM1</th> <th colspan="2">50/125 μm</th> <th rowspan="2">G.652</th> </tr> <tr> <th colspan="2">800 MHz x km</th> </tr> </thead> <tbody> <tr> <td colspan="2">Typical Distance</td> <td>4 km</td> <td>5 km</td> <td>40 km</td> </tr> <tr> <td rowspan="3">Wavelength</td> <td>Typical (nm)</td> <td colspan="2">1300</td> <td>1310</td> </tr> <tr> <td>TX Range (nm)</td> <td colspan="2">1260 to 1360</td> <td>1280 to 1340</td> </tr> <tr> <td>RX Range (nm)</td> <td colspan="2">1100 to 1600</td> <td>1100 to 1600</td> </tr> <tr> <td rowspan="4">Optical Power</td> <td>TX Range (dBm)</td> <td colspan="2">-10 to -20</td> <td>0 to -5</td> </tr> <tr> <td>RX Range (dBm)</td> <td colspan="2">-3 to -32</td> <td>-3 to -34</td> </tr> <tr> <td>Link Budget (dB)</td> <td colspan="2">12</td> <td>29</td> </tr> <tr> <td>Dispersion Penalty (dB)</td> <td colspan="2">3</td> <td>1</td> </tr> </tbody> </table> <p>Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) &gt; dispersion penalty (dB) + total link loss (dB).</p>			100BaseFX			Multi-Mode		Single-Mode	Fiber Cable Type	OM1	50/125 μm		G.652	800 MHz x km		Typical Distance		4 km	5 km	40 km	Wavelength	Typical (nm)	1300		1310	TX Range (nm)	1260 to 1360		1280 to 1340	RX Range (nm)	1100 to 1600		1100 to 1600	Optical Power	TX Range (dBm)	-10 to -20		0 to -5	RX Range (dBm)	-3 to -32		-3 to -34	Link Budget (dB)	12		29	Dispersion Penalty (dB)	3		1
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#### Power Parameters

Power Consumption	CM-600-4TX: 0.61 W (max.) CM-600-2TX models: 1.56 W (max.) CM-600-1TX models: 2 W (max.) CM-600-4MSC/4MST/4SSC: 2.44 W (max.)
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#### Physical Characteristics

IP Rating	IP30
Dimensions	29.7 x 144.4 x 144.8 mm (1.17 x 5.69 x 5.7 in)
Weight	CM-600-4TX: 190 g (0.42 lb) CM-600/1TX, CM-600/2TX models: 230 g (0.51 lb) CM-600-4MSC/4MST/4SSC: 240 g (0.53 lb)

#### Environmental Limits

Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

#### MTBF

Time	740,661 hrs
Standards	Telcordia (Bellcore), GB

#### Warranty

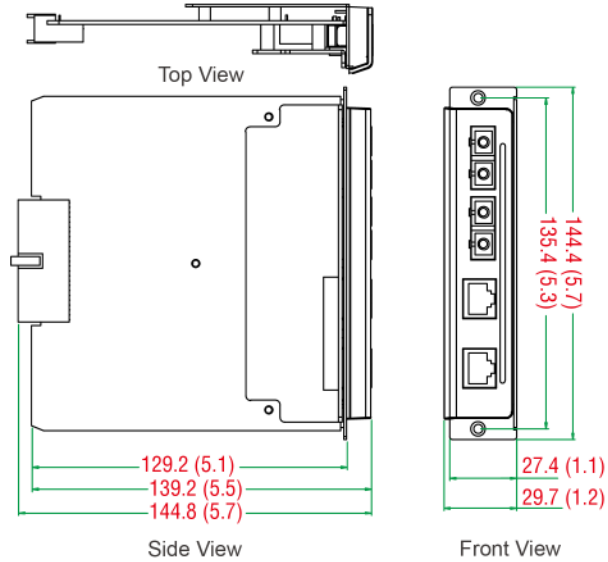
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## Package Contents

Device	1 x CM-600 Series module
Documentation	1 x warranty card

## Dimensions

Unit: mm (inch)



## Ordering Information

Model Name	10/100BaseT(X) Ports (RJ45 Connector)	100BaseFX Ports Multi-mode (SC Connector)	100BaseFX Ports Multi-mode (ST Connector)	100BaseFX Ports Single-mode (SC Connector)	Operating Temp.
CM-600-4TX	4	-	-	-	-40 to 75°C
CM-600-4MSC	-	4	-	-	-40 to 75°C
CM-600-4MST	-	-	4	-	-40 to 75°C
CM-600-4SSC	-	-	-	4	-40 to 75°C
CM-600-3MSC/1TX	1	3	-	-	-40 to 75°C
CM-600-3SSC/1TX	1	-	-	3	-40 to 75°C
CM-600-2MSC/2TX	2	2	-	-	-40 to 75°C
CM-600-2SSC/2TX	2	-	-	2	-40 to 75°C

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