

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 CM-600-4TX-BP module supports the bypass relay function on each port and the CM-600-4TX-PTP module supports the hardware IEEE 1588 PTPv2 protocol on each port. 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-600-4TX-BP: 4, with bypass relay CM-600-4TX-PTP: 4, with hardware-based PTP 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 CM-600-3MST/1TX: 3 CM-600-2MST/2TX: 2
100BaseFX Ports (single-mode SC connector)	CM-600-4SSC: 4 CM-600-3SSC/1TX: 3 CM-600-2SSC/2TX: 2

Time Management	CM-600-4TX-PTP: IEEE 1588v2 PTP (hardware-based)				
Optical Fiber			100BaseFX		
			Multi-Mode	Single-Mode	
	Fiber Cable Type		OM1	50/125 μ m	G.652
				800 MHz x km	
	Typical Distance		4 km	5 km	40 km
	Wavelength	Typical (nm)		1300	
		TX Range (nm)		1260 to 1360	
		RX Range (nm)		1100 to 1600	
	Optical Power	TX Range (dBm)		-10 to -20	
		RX Range (dBm)		-3 to -32	
		Link Budget (dB)		12	
		Dispersion Penalty (dB)		3	
	<p>Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.</p> <p>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).</p>				

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.) CM-600-4TX-PTP: 3.46 W (max.) CM-600-4TX-BP: 2.38 W (max.)
-------------------	---

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/4TX-BP: 240 g (0.53 lb) CM-600-4TX-PTP: 185 g (0.41 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

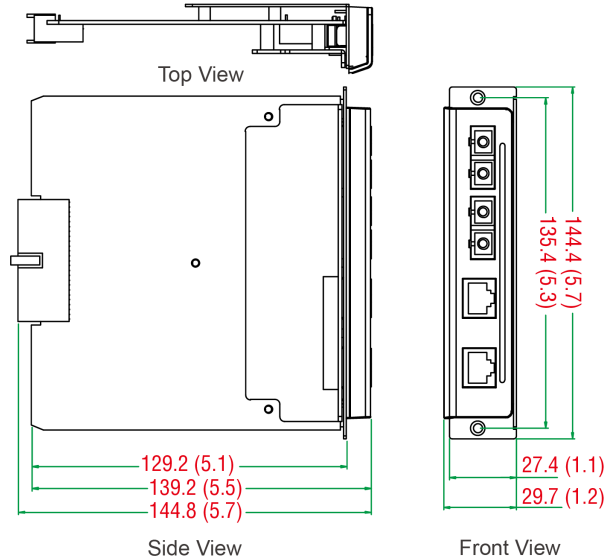
Warranty Period	5 years
Details	See www.moxa.com/warranty

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-600-4TX-BP	4, with bypass relay	-	-	-	-40 to 75°C
CM-600-4TX-PTP	4, with hardware-based PTP	-	-	-	-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-600-3MST/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-600-2MST/2TX	2	-	2	-	-40 to 75°C
CM-600-2SSC/2TX	2	-	-	2	-40 to 75°C

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.