

flexmedia XM

EMC1000T1

Ethernet to 1000BASE-T1 Media Converter

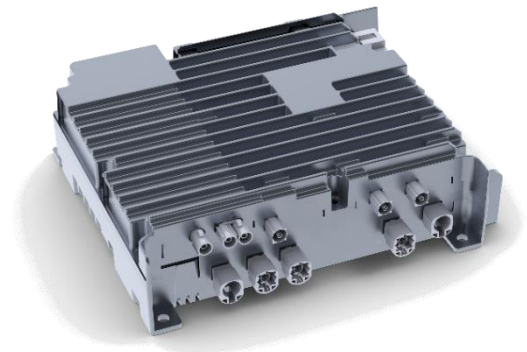
The Flexmedia XM EMC1000T1 is an Ethernet to 1000BASE-T1 Media Converter module.

The EMC1000T1 Media Converter establishes conversion between automotive ECUs using 1000BASE-T1 (1000 Mbps full duplex, with 1x Shielded Twisted Pair cable) and any Standard Gigabit Ethernet (1 Gbps) device with an RJ-45 connector. In this conversion no packets are stored or modified. The conversion takes place on the Physical Layer with the highest proven reliability.

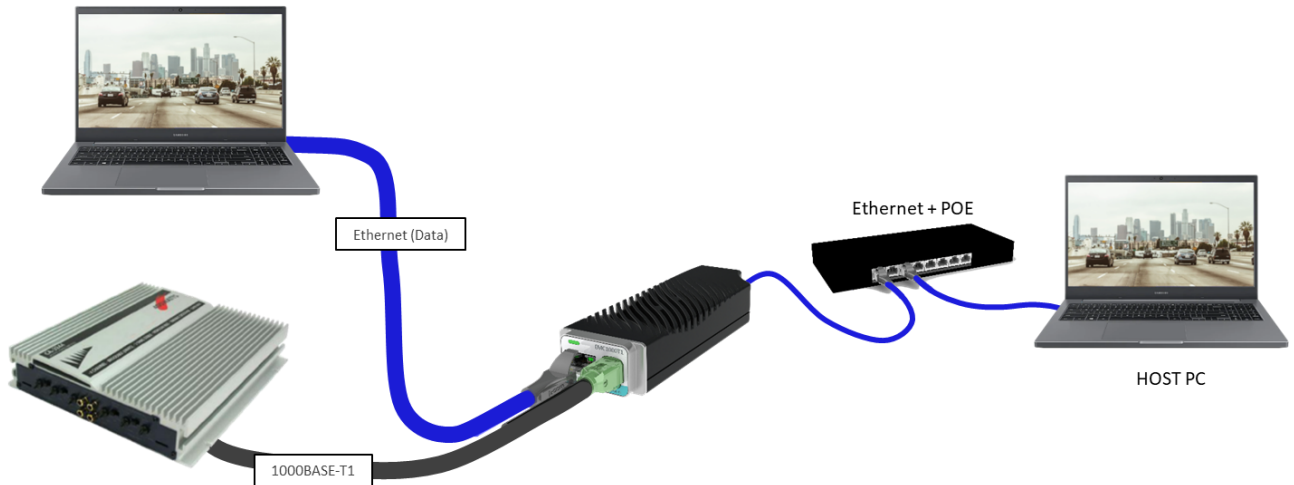


Functions & Features

- Converts from/to Automotive Gigabit Ethernet: 1000BASE-T1 (1000 Mbps full duplex, 1x Shielded Twisted Pair (STP))
- Media Converter from Ethernet to BASE-T1
- PC control of Automotive devices
- Configurable IEEE 100/1000BASE-T1 modes
- Configurable PHY registers via Ethernet control
- H-MTD® connector for IEEE 1000BASE-T1
- RJ-45 connector for Gigabit Ethernet
- Status & activity front LEDs



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Features	Specifications
1 Gbps Ethernet Switch	Data flow from/to Ethernet ports (RJ-45) and 1000BASE-T1 (H-MTD®)
BASE-T1	Converts from/to Automotive Gigabit Ethernet: 1000BASE-T1 (1000 Mbps full duplex, 1x Shielded Twisted Pair (STP))
I/O Connectors:	
✓ Front side	1 x H-MTD®
✓ Rear side	1 x RJ-45
	1 x RJ-45 (8P8C) PoE

General Specifications	Value
Control interface	10/100/1000 Mbps Ethernet connection - Configurable IP address (static or DHCP)
Power Supply	PoE IEEE 802.3af
Input Voltage	22 - 52 VDC
Input Current	max 500 mA (fuse-protected)
Input Power	max 7W
Power Class	0 (max 13W)
Dimensions	24mm x 43mm x 141mm
Weight	190g
Environmental:	Operating: 5°C to 40°C
	Storage: -5°C to 60°C

Interfacing Methods				
Command Line Interface	C#/C++ SDK	GUI	LabVIEW	Supernova/TestStand
✓	✓			