

flexmedia XM

EMC10GT1

Ethernet to BASE-T1 Media Converter

The Flexmedia XM EMC10GT1 is an Ethernet to 2.5G/5G/10GBASE-T1 Media Converter module.

The EMC10GT1 Media Converter establishes conversion between automotive ECUs using 2.5G/5G/10GBASE-T1 (full duplex, with 1x Shielded Twisted Pair cable) and any 10Gigabit Ethernet (10 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.

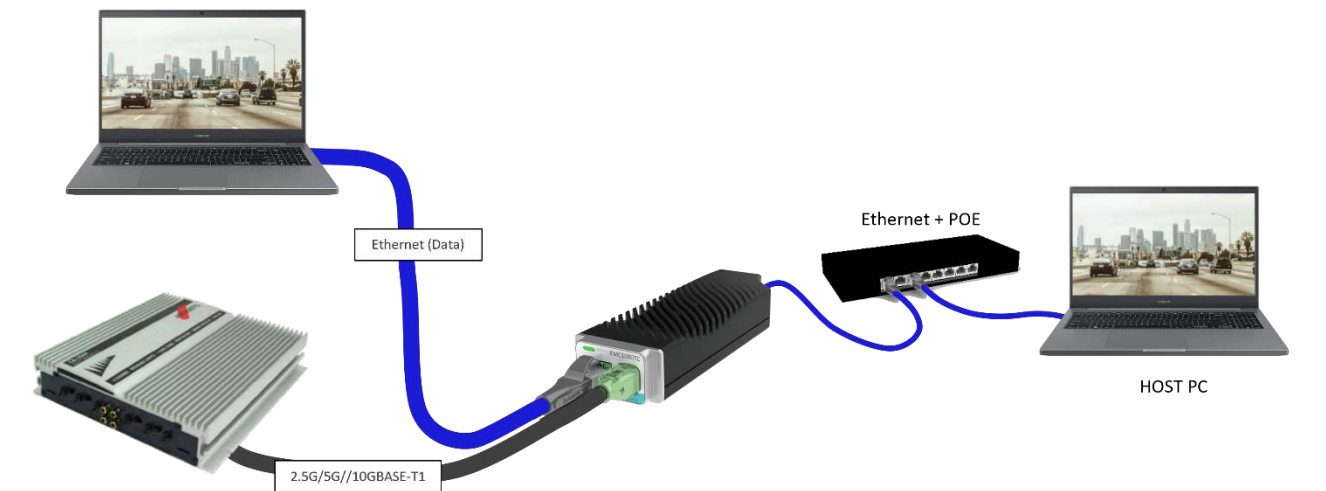


Functions & Features

- Converts from/to Automotive Gigabit Ethernet: 2.5G/5G/10GBASE-T1 (full duplex, 1x Shielded Twisted Pair (STP))
- Media Converter from Ethernet to BASE-T1
- PC control of Automotive devices
- Configurable IEEE 2.5G/5G/10GBASE-T1 modes
- Configurable PHY registers via Ethernet control
- H-MTD® connector for IEEE 2.5G/5G/10GBASE-T1
- RJ-45 connector for 10Gigabit Ethernet
- Status & activity front LEDs



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Features	Specifications
10 Gbps Ethernet Switch	Data flow from/to Ethernet port (RJ-45) and 2.5G/5G/10GBASE-T1 (H-MTD®)
BASE-T1	Converts from/to Automotive Gigabit Ethernet: 2.5G/5G/10GBASE-T1 (full duplex, 1x Shielded Twisted Pair (STP))*
I/O Connectors:	
✓ Front side	1 x H-MTD® 1 x RJ-45
✓ Rear side	1 x RJ-45 (8P8C) PoE

**Some configurations with Intel network adapters and FS SFP+ 10G may not fully interoperate.*

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 - 57 VDC
Input Current	max 500 mA (fuse-protected)
Input Power	max 13W
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

Control Interfaces				
Command Line Interface	C#/C++ SDK	GUI	LabVIEW	Supernova/TestStand
✓	✓			