



techteal
engineering



Techteal 100/1000 Base-T1 Media Converter

High-performance, industrial-grade communication adapter specifically designed for the development and testing of Automotive Ethernet networks.



www.techteal.com

PROVEN. TRUSTED.
OVER 25 000
UNITS DELIVERED WORLDWIDE

With its compact structure, automotive-grade protection, and plug-and-play functionality, the Media Converter can be directly deployed in Automotive Ethernet environments without requiring additional driver support.

TECHNICAL SPECIFICATIONS



CATEGORY	DETAILS
Operated Voltage	12V DC (Operating Range 6V - 36V)
Power Consumption	≤2W
Connectors	1x100/1000BASE-T1 (H-MTD or MATEnet) 1xRJ-45 1xBarrel Jack DC Connector
PHY	Marvell 88EA1512 B2
Supported Protocols	IEEE 802.3bw (100BASE-T1) IEEE 802.3bp (1000BASE-T1) IEEE 802.3ab (1000BASE-T)
Operating Temperature	-40°C to +85°C
Protection Rating	IP20
Compliant with	CE, RoHS
Warranty	24 months

KEY FEATURES

- ✓ **Bidirectional Data Conversion:**
Seamlessly converts data between 100/1000BASE-T1 and standard Ethernet BASE-TX (RJ-45)
- ✓ **Robust Industrial Design:**
Built to withstand demanding automotive environments
- ✓ **Compact and Durable:**
Featuring a compact structure and an aluminum alloy housing
- ✓ **Plug-and-Play Functionality:**
No additional drivers required for deployment
- ✓ **Wide Application:**
Ideal for ECU joint debugging, autonomous driving sensor calibration, vehicle network testing, and laboratory simulations