

MVQ3244 2.5/5/10GBASE-T1 MultiGBASE-T1 with TC10 & MACsec SFP+ Module

Intrepid Controls has developed an Automotive Ethernet Enhanced Small Form Pluggable (SFP+) module based on the Marvell MVQ3244 single-pair Ethernet physical layer transceiver (PHY) that is designed to work with both 2.5/5/10GBASE-T1 speeds. The MVQ3244 SFP is designed to meet the requirements of the OPEN Alliance TC17 MACsec Automotive Profile. This technology is seeing rapid adoption by new Automotive Ethernet architectures for its ability to provide the lowest level of protection against network intrusions like man-in-the-middle and replay attacks, as well as optionally encrypt sensitive data. Our MVQ3244 SFP is also compliant with the OPEN Alliance TC10 requirements, the Automotive Ethernet sleep/wake-up features that are integral to the PHY allowing partial networking and other strategies needed to balance optimal battery conservation with all customer use cases.



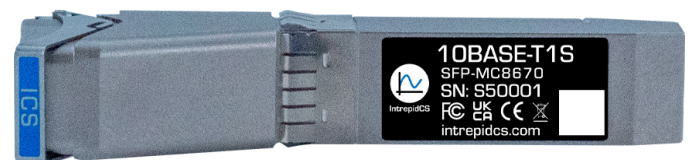
Application

- Compatible with Marvell EVB boards and many test tools and commercial ethernet devices
- Well suited for conformance and performance testing applications
- Register level access and control for real-time monitoring, diagnostics and reconfiguration

Features

- Supports IEEE 2.5/5/10GBASE-T1 standards
- Compliant with OPEN Alliance's TC10 Automotive Ethernet Sleep/Wake-up requirements
- Designed for use with the OPEN Alliance's TC17 MACsec Automotive Profile
- User selectable link modes: master, slave, and auto negotiate modes, default is auto negotiate
- LEDs indicating link status, activity, and speed

- Metal lock and latch system for reliable connection
- Fully metallic enclosure and stainless steel connector shielding for Low EMI
- H-MTD Automotive Ethernet connection system (USCAR 777-U-002-1-Z01 compliant)
- Built-in ESD protection
- Overall dimensions: 76.5 mm length x 13.5 mm width x 20.5 mm height
- Temperature Range: -40 to 85°C
- Weight: approximately 30 g



Ordering Information

Part Number	Description
SFP-MV3244-A1	MultiGBASE-T1 SFP+ Module with TC10 & MACsec

* Specifications subject to change. Please contact Intrepid for the latest information.

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