Intrepid 88Q2112 1000BASE-T1 SFP Module

Intrepid Controls has developed a two wire ethernet Small Form Pluggable (SFP) module based on the Marvell 88Q2112-A2 PHY. Designed to work with both 100/1000Base-T1 speeds and compatible in both IEEE and non-IEEE compliant modes.

Application

- Works with Intrepid Controls SFP capable hardware
- Works with Marvell EVB boards and most test tools and commercial ethernet devices
- Well suited for conformance and performance applications
- Industrial networking purposes (e.g. robots in factories, automation interfaces)
- Register level access and control for real-time monitoring, diagnostics and reconfiguration

Features

- Supports IEEE 802.3bw and IEEE 802.bp standards
- Supports simplified MDI termination resistors in the PHY circuit
- Supports IEEE 1000BASE-T1 PHY gigabit single pair ethernet with transmission lengths of 10 m.
- User configurable 88Q2112 A2 PHY registers to allow more configurability
- User selectable modes: master, slave, and auto negotiate modes, default is auto negotiate.
- Metal lock and latch system for reliable connection
- Fully metallic enclosure and stainless steel connector shielding for Low EMI
- Interface via H-MTD SPE connector
- Plug accepts AWG26 to AWG22 (4-6mm) solid or stranded wire

- Bandwidth tested up to 3Ghz
- 1000 Ethernet connector mating cycles
- Build in ESD protection
- Overall dimensions: 81.5 mm length x 14.0 mm width x 12.0 mm height
- Industrial Temperature Range: -40 to 85°C (-40 to 185°F)
- Weight: approximately 30 g

Optional Accessories

- 1 m IEC 63171-6 to TE Matenet plug cable
- 1 m IEC 63171-6 to TE Matenet jack cable

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

Ordering Information

Part Number	Description
SFP-MV2112-A2	1000BASE-T1 SFP Module

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