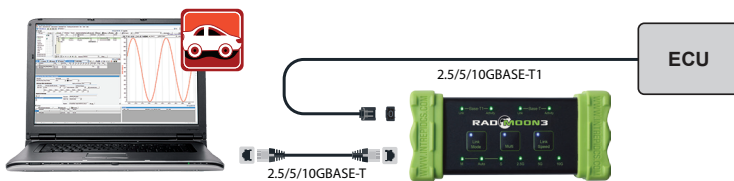


# RAD-Moon 3

## 2.5/5/10GBASE-T1 "Multi-Gig" Media Converter for Automotive Ethernet

Intrepid's RAD-Moon 3 is the latest Ethernet Media Converter for Automotive Ethernet applications. The RAD-Moon 3 converts the Ethernet physical layer from MultiGBASE-T1 to MultiGBASE-T. This is needed to directly connect a PC equipped with the standard 8-wire Ethernet to an automotive ECU or Switch which use the 2-wire version of Ethernet specific to In-Vehicle Networks. (IVNs)

The RAD-Moon 3 provides a small but rugged enclosure perfect for carrying in your laptop bag.



Using the RAD-Moon 3 as a media converter.

Connecting a PC directly to an automotive ECU using the RAD-Moon 3 is useful for simulating other vehicle nodes, performing direct diagnostics, or ECU reflashing.

The registers of the MultiGBASE-T1 PHY can be accessed for direct control and monitoring of its operation, as well as enable test and diagnostic modes.\*

### ORDERING INFORMATION:

Part Number	Description
RAD-Moon3	2.5/5/10GBASE-T1 Media Converter for Automotive Ethernet

Specifications subject to change; please contact Intrepid for the latest information. All trademarks are the property of their respective owners.



### Key Features

- 2.5/5/10GBASE-T1 (10GBASE-T1 support is not fully validated on revision 1 hardware) physical layer using the Marvell 88Q4364 PHY\*\*
- Intuitive LED indicators
  - PHY configuration, link status, and network activity
  - Bar graph display of MultiGBASE-T1 Signal Quality Indicator (SQI) in real-time
- Membrane buttons allowing device configuration without software
  - Switch between 2.5G, 5G, and 10G link speeds
  - Select the MultiGBASE-T1 PHY clock configuration
- Uses the H-MTD connection system designed for MultiGBASE-T1
- 6-40V power range, compatible with in-vehicle power from barrel jack.
- Ruggedized USB Type-C connector for device configuration and firmware updates
- PHY register monitoring and updating over USB using Vehicle Spy or Intrepid's Open Source API

\*88Q4364 register information must be acquired under NDA directly from Marvell Semiconductor.

\*\*100BASE-T1 is not supported by the 88Q4364 & 10GBASE-T1 support is not fully validated on revision 1 hardware

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