



Media Converter M10

Automotive Ethernet physical Layer converter with auto-negotiation features for Lab and In-car use



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The **Media Converter M10** is intended to assist in complex and dynamically changing setups during development and HIL testing.

It provides a reliable media conversion of Automotive Ethernet **100BASE-T1** and **1000BASE-T1** to standard Ethernet 100BASE-TX and 1000BASE-T on RJ45.

With its **dual PHY speed** of 100 and 1000BASE-T1 it is a must-have for any development and test engineer in the automotive world. The unique auto-negotiation functionality provides a fast and seamless workflow in all cases.

With a total of seven LEDs the user always has a clear picture about the current status of the links. The signal path does not contain any other parts than the two involved PHYs and therefore, the device does not introduce any jitter or latency other than what is native to the PHYs themselves.

| Physical Parameters | | |
|----------------------------------------------------|------------------------|-------------------------------------------------|
| Dimensions | 114 mm x 86 mm x 35 mm | |
| Maximum envelope with connectors | 117 mm x 86 mm x 35 mm | |
| Weight | 200 g | |
| External power supply | 5-42 V | |
| Power consumption | 2 W Max | |
| Temperature range | Commercial | |
| Interfaces & Connectors | | |
| Ethernet | No. | |
| 1Gbps Ethernet | 1 | 1000BASE-T/100BASE-T |
| 1Gbps Automotive Ethernet | 1 | 1000BASE-T1/100BASE-T1 |
| USB | | |
| USB 2.0 | 1 | RFU |
| Power | | |
| Barrel Jack (2.1 mm) | 1 | |
| Phoenix Jack (2 Pin) | 1 | |
| Switches | | |
| 3 Position Switches | 2 | Select Master/Slave/Auto and 1Gbps/100Mbps/Auto |
| LEDs | | |
| Power | 1 | |
| Mode/Link | 4 | |
| Features | | |
| Auto Detect for Automotive Ethernet Speed and Mode | | |
| Marvell PHY Auto-negotiation Mode | | |



100
BASE-T1

1000
BASE-T1

1000
BASE-T

Auto-
negotiation

Write now: info@tsn.systems or call: +49 661 410 951 80

Control complexity.

Want to know more about
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