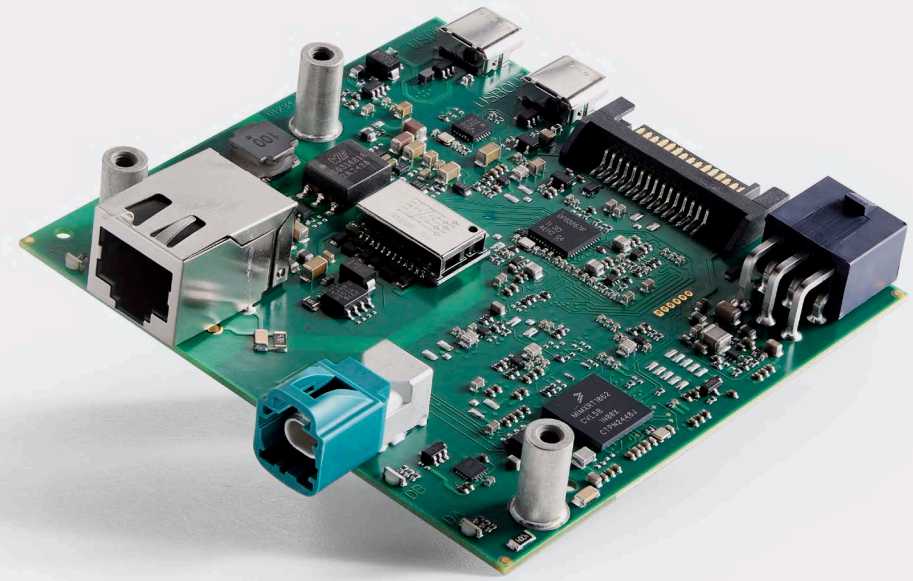
KVASER
Advancing connectivity

Kvaser Arcus 100/1000BASE-T1 H-MTD

See more products







Your reliable connection to Automotive Ethernet networks

Kvaser Arcus 100/1000BASE-T1 H-MTD is a high-performance Automotive Ethernet media converter designed to simplify access to vehicle networks. It provides fast and reliable full-duplex conversion between Automotive Ethernet 100/1000BASE-T1 and Standard Ethernet 100/1000BASE-T, making it suitable for lab testing, in-vehicle development, ECU debugging, traffic monitoring, and system start-up workflows. Its transparent media conversion architecture enables efficient communication between Automotive Ethernet and standard Ethernet networks during development and validation.

Designed for embedded systems, it can also be installed in standard PCs using the Kvaser ATX Bracket (EAN 73-30130-01811-2). For bench-top or portable use, select the Kvaser Housing (EAN 73-30130-01813-6).

Warranty
2-year warranty. See our general conditions and policies for details.

Support
Free support for all products by contacting support@kvaser.com

EAN
73-30130-01810-5

Ref. No. 98437-0 v. 2.3

KVASER
Advancing connectivity

Kvaser Arcus 100/1000BASE-T1 H-MTD

Major Features

- Flash ECUs over Automotive Ethernet (DoIP or IP/ Ethernet stacks), bridging the vehicle's Ethernet bus to a developer laptop or server.
- Evaluate how an ECU behaves under specific link conditions by injecting packets to test reliability and compliance.
- Use during development of Ethernet-enabled ECUs or gateways as a media bridge for debugging and logging traffic.
- Serves as an Ethernet connection point during cybersecurity testing to inspect secure traffic or test resistance to MAC-level injection attacks.
- Simulates unavailable ECUs in a partial network using applications.
- Connects to a data logger or test PC to monitor Automotive Ethernet traffic from a running development vehicle.
- Enables test of early-boot communication between ECUs and bootloaders over Automotive Ethernet.
- Complies with the requirements of R155/ISO 21434 and CRA/IEC 62443.
- Supports Secure Boot: only signed and encrypted firmware will run on the device, ensuring that the unit has not been tampered with.
- Supports TC10 for Automotive Ethernet 100/1000 BASE-T1 for wake up and sleep functionality.

Technical Data

Dimensions	81 x 85 x 20 mm
Ethernet Channel 1	100/1000BASE-T, RJ45 8p8
Ethernet Channel 2	100/1000BASE-T1, H-MTD Key Z
Operating Temperature	-40 to +85 °C
Power consumption	Using PoE: 2.5W, PCIe/SATA: 1.5W and USB: 250mA
Power input	PoE, USB 2.0, EATX, 15 pin SATA
Regulatory Compliance	CE, FCC
Relative humidity	0% to 85% (non-condensing)
Secure Boot	Yes, runs only signed and encrypted firmware
TC10 support	Yes, for 100/1000 BASE-T1
USB IN	USB 2.0 Type-C
USB OUT	USB 2.0 Type-C
Weight	50 g

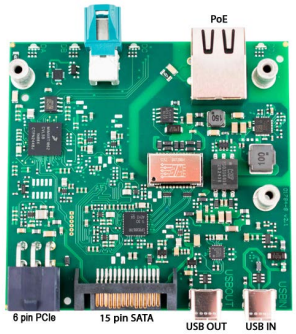
Two accessories for Kvaser Arcus 100/1000BASE-T1 H-MTD: Kvaser ATX Bracket (EAN 73-30130-01811-2) for installation in standard PCs and Kvaser Housing (EAN 73-30130-01813-6) for bench-top or portable use.

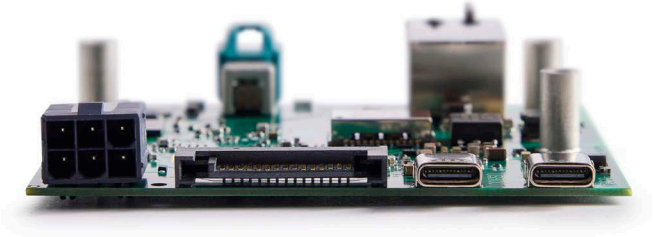


01811-2



01813-6





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