Kvaser Air Bridge Light HS M12 (FCC)

Learn more about this product

Your Gateway to Efficient Connectivity

The Kvaser Air Bridge Light HS M12 is a configuration-free wireless CAN bridge that uses a dust and water-tight M12 connector to connect CAN networks.

Comprising a preconfigured pair of plug-and-play units, with integrated antennas and rugged housings, the Kvaser Air Bridge Light HS M12 ensure the rapid exchange of raw CAN data in situations that make wired connection unsuitable or challenging, such as CAN cabling that experiences high mechanical stress in harsh environments.

This version (01148-9) Kvaser Air Bridge Light HS M12 (FCC) complies with US certification version, while (01141-0) Kvaser Air Bridge Light HS M12 (CE) is approved for the European Union.

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

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

EAN
73-30130-01148-9

Ref. No. 98305-2 v. 2.0

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Advancing connectivity

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Major Features

- IP67-rated M12 connector on each unit; dust- and water-resistant.
- IP65-rated aluminium housing, suitable for fixed outdoor installations.
- 2.4 GHz proprietary protocol.
- Internal antenna design, antenna output power max 18 dBm.
- Automatic baud rate detection (125K, 250K, 500K, 1M).
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B active) identifiers.
- High-Speed CAN connection (compliant with ISO 11898-2), up to 1 Mbit/s.
- Plug and play, driverfree, and configuration-free.
- Power supplied through the CAN bus interface.
- Extended operating temperature range from -40 °C to +70 °C.
- Compatible with J1939, CANopen, NMEA 2000® and DeviceNet. Higher layer protocol translation handled by the user's application. For software support please see our Technical Associates products and our Software Download page (www.kvaser.com).

Support

Documentation, Kvaser CANlib SDK and drivers can be downloaded for free at www.kvaser.com/downloads.

Kvaser CANlib SDK is a free resource that includes everything you need to develop software for the Kvaser CAN interfaces. Includes full documentation and many program samples, written in C, C++, C#, Delphi, Visual Basic, Python and t programming language.

Kvaser CAN hardware is built around the same common software API. Applications developed using one device type will run without modification on other device types.

Technical Data

Antenna Output Power	Max 18 dBm approx.
Antenna Type	Internal Antenna
CAN Bit Rate	Autobaud at 1 Mbit/s, 500 kbit/s, 250 kbit/s and 125 kbit/s
CAN Channels	1
CAN Transceivers	TJA1051T
Casing Material	Aluminum
Connector	M12 5-pin
Current Consumption	Approx. 2W
Dimensions	30 x 151 x 17 mm
Frequency Range	2.405 GHz to 2.477 GHz
IP Class	IP65
Operating Temperature Range	-40 °C to +70 °C
Packet Latency	Approx. 4.8 ms
Weight	200 g
Wireless Communication	2.4 GHz Gaussian Frequency-Shist Keying (GFSK) with Frequency Hopping Spread Spectrum (FHSS) modulation

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