

Kvaser Air Bridge Light HS (FCC)



Your Gateway to Efficient Connectivity

Kvaser Air Bridge Light HS (FCC) is a configuration-free wireless CAN bridge that achieves predictable latency, without sacrificing stability or range. Comprising a preconfigured pair of plug-andplay units, the Kvaser Air Bridge Light HS (FCC) ensures the rapid exchange of CAN data in applications where a wired connection is unsuitable or challenging due to high environmental abrasion on cables and connectors.

() Warranty

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

Support

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

EAN

73-30130-01008-6

Kvaser Air Bridge Light HS (FCC)



Major Features

- Forms a wireless CAN bridge between a pair of two Kvaser Air Bridge Light HS devices.
- High-speed CAN connection (compliant with ISO 11898-2), up to 1 Mbit/s.
- Plug and play, driver-free, and configuration-free.
- Proprietary wireless protocol for high robustness, very low latency and to enable link establishment and connection in an instant.
- Internal antenna design with polarization diversity.
- Automatic bit rate detection.¹
- Bit rate conversion between CAN bus systems with different bit rates.
- IP65-rated, dust- and water-resistant housing.
- Extended operating temperature range.
- 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 SDK and drivers can be downloaded for free at www.kvaser.com/downloads.

Kvaser 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 script 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.

 $^{^1\,}$ Configurable to a fix CAN bit rate (1Mbit/s, 500 kbit/s, 250 kbit/s or 125 kbit/s). Refer to Kvaser Air Bridge Light HS User's Guide for more information.

Antenna Output PowerMax 18 dBmCAN Bit Rate1 Mbit/s, 500 kbit/s, 250 kbit/s and 125 kbit/sCAN Channels1CAN TransceiversTJA1051T (compliant with ISO 11898-2)ConnectorD-SUB 9 PlugDimensions30 x 151 x 17 mmFrequency Range2400 - 2483.5 MHzHousing MaterialAluminum, PA6Message LatencyTypically 2.5 - 7.5 msMessage Rate, CAN 2.0A (11-bit ID) 12 x 2100 messages/sMessage Rate, CAN 2.0B (29-bit ID) 12 x 1680 messages/sMessage Transfer Capacity 2Corresponding to 100% bus load for both directions at 250 kbit/s bit ratePower ConsumptionTypically 2 WPower Supply9 - 36 VDCRegulatory ComplianceFCCTemperature Range-40 to +70 °CWeight93 g (per device)Frequency Hopping	😓 Technical Data	
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Regulatory Compliance FCC Temperature Range -40 to +70 °C Weight 93 g (per device)	Power Consumption	Typically 2 W
Temperature Range -40 to +70 °C Weight 93 g (per device)	Power Supply	9 - 36 VDC
Weight 93 g (per device)	Regulatory Compliance	FCC
	Temperature Range	-40 to +70 °C
Frequency Hopping	Weight	93 g (per device)
Wireless Communication Wireless Communication Spread Spectrum (FHSS) with Gaussion Frequency- Shift Keying (GFSK)	Wireless Communication	with Gaussion Frequency-

¹ Maximum message rate in both directions for eight byte payload. Refer to "Kvaser Air Bridge System Integration Guide" for more information.

2 Recommended maximum load is 80%. Refer to "Kvaser Air Bridge System Integration Guide" for more information.

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