KVASER
Advancing connectivity

# Kvaser Air Bridge Light HS (FCC)

Learn more about this product



## 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-and-play 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

Ref. No. 98303-8 v. 2.0

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# 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.

## Technical Data

| | |
|---|---|
| **Antenna Output Power** | Max 18 dBm |
| **CAN Bit Rate** | 1 Mbit/s, 500 kbit/s, 250 kbit/s and 125 kbit/s |
| **CAN Channels** | 1 |
| **CAN Transceivers** | TJA1051T (compliant with ISO 11898-2) |
| **Connector** | D-SUB 9 Plug |
| **Dimensions** | 30 x 151 x 17 mm |
| **Frequency Range** | 2400 - 2483.5 MHz |
| **Housing Material** | Aluminum, PA6 |
| **Message Latency** | Typically 2.5 - 7.5 ms |
| **Message Rate, CAN 2.0A (11-bit ID)** [1] | 2 x 2100 messages/s |
| **Message Rate, CAN 2.0B (29-bit ID)** [1] | 2 x 1680 messages/s |
| **Message Transfer Capacity** [2] | Corresponding to 100% bus load for both directions at 250 kbit/s bit rate |
| **Power Consumption** | Typically 2 W |
| **Power Supply** | 9 - 36 VDC |
| **Regulatory Compliance** | FCC |
| **Temperature Range** | -40 to +70 °C |
| **Weight** | 93 g (per device) |
| **Wireless Communication** | Frequency Hopping Spread Spectrum (FHSS) with Gaussion Frequency-Shift Keying (GFSK) |

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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