



## KVASER AIR BRIDGE LIGHT HS

EAN 73-30130-00808-3 | (FCC) 73-30130-01008-6

Kvaser Air Bridge Light HS 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 to exchange raw CAN data, the Kvaser Air Bridge Light HS is designed for environments or situations that make wired connection unsuitable or challenging e.g., between two moving parts that are connected by CAN.

There are two versions: (00808-3) Kvaser Air Bridge Light HS is approved for the European Union, while (01008-6) Kvaser Air Bridge Light HS (FCC) complies with US certification. Both share the same functionality but have different radio transmission schemes due to regulatory differences.

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## Major Features

- A preconfigured pair of units that create a point-to-point radio link between two CAN networks
- 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
- Power supplied through the CAN bus interface
- Rugged aluminum housing
- Plug and play, driver-free and configuration-free
- Fully compatible with J1939, CANopen, NMEA 2000 and DeviceNet
- Extended operating temperature range from -40 to +70 °C

## Technical Data

CAN Channels	1
CAN Transceivers	TJA1051T (Compliant with ISO 11898-2)
CAN Controller	Built into the processor
CAN Bit Rate	Autobaud at 1 Mbit/s, 500 Kbit/s, 250 Kbit/s and 125 Kbit/s
Max Message Rate	Approx. 1200 msg/s full duplex
Packet Latency	Approx. 4.8 ms
Wireless Communication	2.4 GHz Gaussian Frequency-Shift Keying (GFSK) with Frequency Hopping Spread Spectrum (FHSS) modulation
Frequency Range	2.405 GHz to 2.477 GHz
Antenna Type	Internal Antenna
Antenna Output Power	Max 18 dBm approx.
Weight	200 g
Dimensions	30 x 151 x 17 mm
Silent Mode	No
External Power	Allowed operating voltage 9 V-36 V DC Maximum input voltage 48 V DC
Power Consumption	Approx. 2 W
Hardware Configuration	Plug and Play
IP Rating	IP 65
Operating temperature	-40 C to +70 C



### WARRANTY

2-year warranty. See our General Conditions and Policies for details. Register your product at [www.kvaser.com/getting-started](http://www.kvaser.com/getting-started) for an additional 1-year warranty extension.

### SUPPORT

Free technical support on all products available by contacting [support@kvaser.com](mailto:support@kvaser.com)

### CERTIFICATIONS

The Kvaser Air Bridge Light HS (FCC) (EAN: 73-30130-01008-6) has been tested and found to comply with part

15 of FCC Rules. See User Guide for full FCC Compliance Information Statement.

The Kvaser Air Bridge Light HS (EAN: 73-30130-00808-3) has been tested and declared to be in conformity with the relevant Union harmonisation legislation Radio Equipment Directive (RED) 2014/53/EU (Art. 3.1a, 3.1b, and 3.2) and RoHS recast Directive 2011/65/EU (Art. 4.1). See User Guide for full EU Declaration of Conformity.