

DATASHEET

XBB Dongle®

Bluetooth®, CAN

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Order number: IDAB-2020-0528-1

Version: EN-20200918-1

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Important:

This section contains information that is important for you to know when reading the data sheet and before working with the XBB Dongle®.

It includes the safety information that applies when you are working on and with the XBB Dongle® and its surrounding parts.




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Safety information:

Follow the instructions to avoid injury or damage the equipment:

	<p>WARNING!</p> <p><i>There are ESD sensitive components inside the XBB Dongle®.</i></p>
	<p>WARNING!</p> <p><i>Contains electronics. Must be recycled. Do not dispose in household garbage.</i></p>
	<p>WARNING!</p> <p><i>Newer work on XBB Dongle® with the power supply on.</i></p>

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Function:

XBB Dongle® serves as the master for all XBB compatible products that can communicate over Bluetooth® or CAN.

It houses a fully compatible CAN 2.0B controller for communication with vehicles over the OBDII port or other CAN compatible devices and over Bluetooth. XBB Dongle® is Bluetooth qualified. A total of 4 XBB compatible products can be connected to the XBB Dongle®.

XBB Dongle® have voltage monitoring and a tree-axis digital accelerometer for wake-up purposes. With the TSharkRex® programming language XBB Dongle® is fully programmable.

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Technical data:

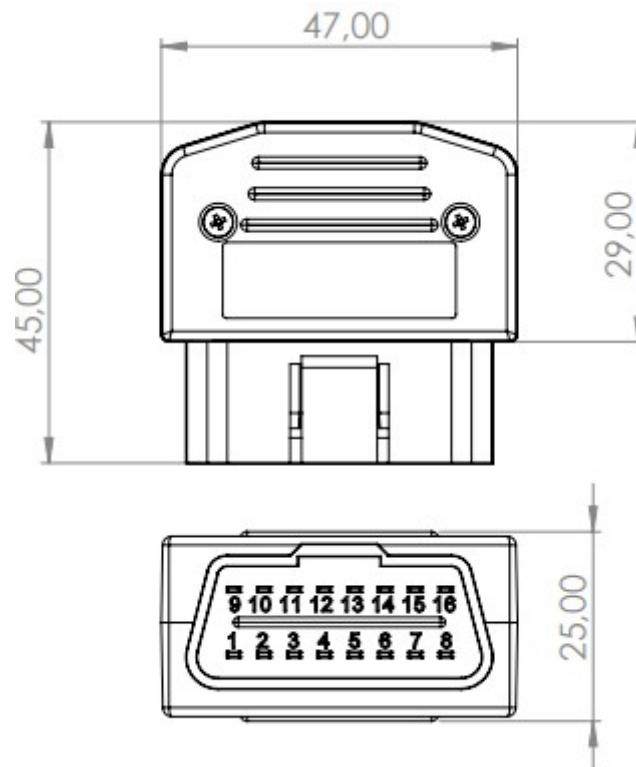
Rated voltage:	12 / 24	V
Operating voltage:	9 – 36	V
Quiescent current Standby mode:	3 – 5.4	mA
Operational current (with CAN transmission activated).	30	mA
Protection class:	-	
Implementation:	Plastic	>PA66<
EMC/Standards:	EN 50498:2010 EN 50581:2012 RED 2014/53/EU EN 300328 – V2.1.1 EN 301489-01 – V2.1.1 EN301489-17 – V3.1.1 EN 60950 – 1:2006 /11:2009 /A1:2010 /A12:2011 /A2:2013 EN 62479:2011-09 RoHS 2011/65/EU Bluetooth® qualified	
Permissible temperature range:	-40 to +85	°C
Weight:	28	g
Connection:	2x8 pin male	ISO J1962
Feature:	Bluetooth®, CAN, voltage monitoring, 3-axis accelerometer	

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Dimensions:



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Connector Pinout:

<i>Pin #</i>	<i>Function</i>
1	<i>Alt. CAN-H (Tesla)</i>
2	<i>n.c</i>
3	<i>Alt. CAN-H (Ford)</i>
4	<i>GND</i>
5	<i>GND</i>
6	<i>CAN-H</i>
7	<i>n.c</i>
8	<i>n.c</i>
9	<i>Alt. CAN-L (Tesla)</i>
10	<i>n.c</i>
11	<i>Alt. CAN-L (Ford)</i>
12	<i>n.c</i>
13	<i>n.c</i>
14	<i>CAN-L</i>
15	<i>n.c</i>
16	<i>+12 VDC</i>

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Alternative CAN pins

XBB Dongle® is equipped with different CAN pins depending on different vehicle models. CAN pin selection is made hardware wise only by trained personnel. Changing the CAN pins require soldering on PCB and doing so without manufacturer's written approval will void any warranty.

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Traceability

Reference document

Denomination	Publication number
Reference instruction	Nr:EN-20200918-1

Revision

The following significant changes have taken place since the previous version:

Rev	Page	Description of revision	Approved by tech. manager	Date	App. by doc. officer.	Date
1	ALL	Creation of doc.	KHS	20-09-18	KHS	20-09-18
2	Several	Spelling	KHS	20-12-04	KHS	20-12-04
3						
4						
5						