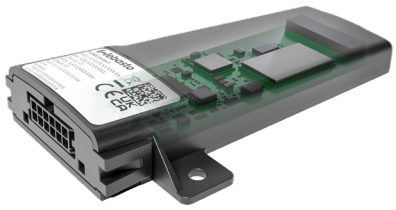
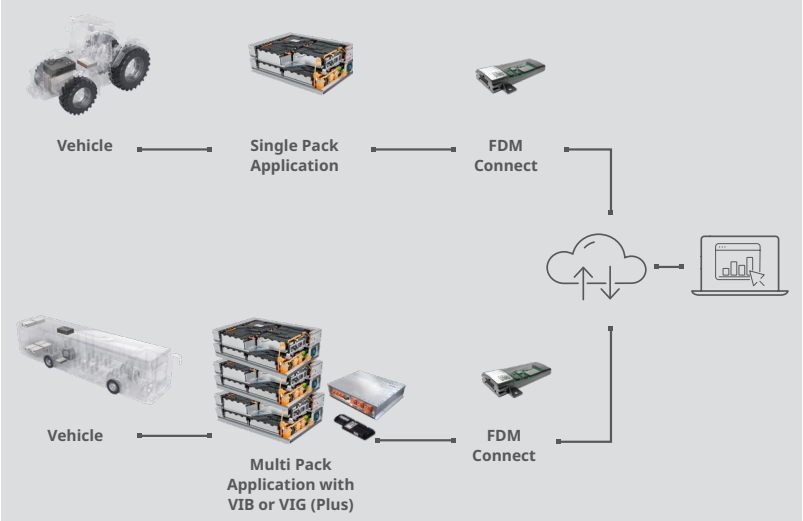
Webasto
Feel the Drive

Field Data Monitoring Connect

The smart control unit for the standardized battery system





With Field Data Monitoring (FDM) it is possible to collect, transmit, save and visualize data from the Webasto standardized battery.

The FDM control unit is acting as the central interface between the batteries and the mobile network. The VIB/VIG (Plus) or battery data is transferred via 2G or LTE CAT M1 to a server and visualized by a web frontend.

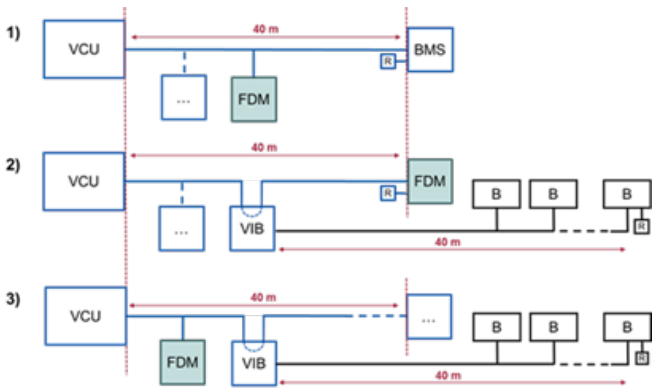
FDM Connect is intended for B2B commerce only.

Installation

Depending on where FDM Connect and VIB/VIG (Plus) or battery are to be integrated in the vehicle CAN, the bus termination

Advantages at a glance:

- Over the air software updates
- Enabling remote support & troubleshooting
- Getting battery field data of the individual application via supporting CAN communication (CAN2.0B and SAE J1939)



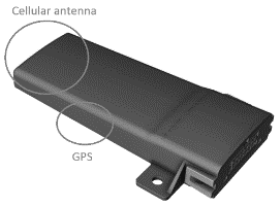
Truck | Light vehicles | Bus | Off-Highway | Specialty vehicles

Supported Countries

Countries of European Union, Switzerland, United Kingdom, Norway, Iceland, Liechtenstein

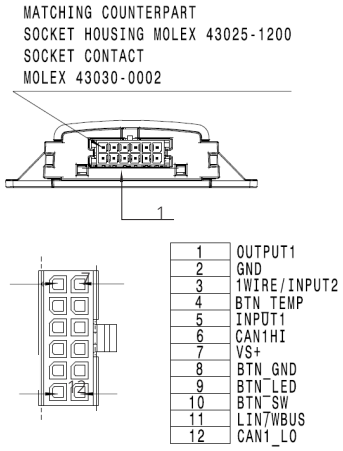
FDM Installation:

Cellular antennas are integrated in the FDM Connect. For best connectivity the device should be installed in a location with a good sky view (thru plastics and glasses). Metal objects like chassis, cables, fixing plates etc. must be at least 3 cm away from the FDM housing.



Pinout & Connector

Pin	Name	Function	Min. Voltage	Max. Voltage	Max. Current
1	OUTPUT1	(Reserved for future use)	-	-	
2	GND	Ground, battery minus	-	-	1A
3	IN1	(Reserved for future use)	-	-	-
4	EXT_TEMP	(Reserved for future use)	-	-	-
5	Reserved	(Reserved for future use)	-	-	-
6	CAN_HI	CAN bus high signal	2,5 V	3,5 V	3 mA
7	VS+	Power supply V_{bb}	9 VDC	32 VDC	2 A*
8	BTN_GND	(Reserved for future use)	-	-	-
9	BTN_LED	(Reserved for future use)	-	-	-
10	BTN_SW	(Reserved for future use)	-	-	-
11	LIN/WBUS	(Reserved for future use)	-	-	-
12	CAN_LO	CAN bus low	1,5 V	2,5 V	-



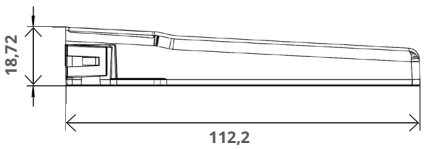
* VS+ = 12 V, peak overcurrent at OUTPUT1 and same time modem TX at 2G network with maximum RF TX peak power.

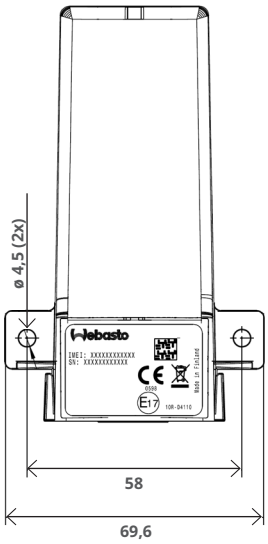
Technical Specifications

Features	
Network module	Quad-band GSM, LTE CAT M1
GNSS module*	BeiDou, Galileo, GLONASS, GPS / QZSS
CAN	2.0B, J1939

* Geopositioning functionality is currently disabled by default in FDM firmware.

Body	
Weight (g)	53
Material	LUPOY GN5007FH PC/ABS





Power	Minimum	Typical	Maximum
Voltage (V_{bb}, V+)	9 VDC	-	32 VDC
Power consumption (I_{bb} average at 24 VDC)	10 mADC	12 mADC	60 mADC

Environment	Minimum	Typical	Maximum
Moisture (% RH)	-	-	95
Operating temperature (C°)	-40		+80
IP classification*	-	IP42	-

*Device should be installed so that connector side is pointing downwards.

Certifications and approvals	
	CE, ECE-R10, FCC

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