ALMECdiag DEVICE | CAN BUS IoT GATEWAY

Diaboard

- Rugged IoT Gateway for DIABOARD cloud portal data transmission
- With GPS trace signal
- 2G QUAD-BAND communication
- SIM card INCLUDED
- WiFi connection
- SERIAL line
- Designed for machines and equipment equipped with a CAN BUS network

CE

TECHNICAL DATA

	BASIC VERSION	FULL VERSION
POWER SUPPLY	9-30 VDC	
CAN BUS PORT	**x1** CAN BUS 2.0 A/B COMPLIANT – (11, 29 BIT) – ISO 11898-2 UP TO 1Mbit/s	**x2** CAN BUS 2.0 A/B COMPLIANT – (11, 29 BIT) – ISO 11898-2 UP TO 1Mbit/s
SERIAL PORT	**x1** RS232	**x2** RS232
2G GSM/GPRS	QUAD BAND GSM/GPRS 2G MODULE • WORLD WIDE COVERAGE • EASY REPLECEABLE MICRO-SIM • QUAD-BAND 850/900/1800/1900MHz • TRANSFER CAPACITY : UP TO 85.6kbps (Downlink) 85.6kbps (Uplink)	
GPS	GPS + BeiDou + Galileo ACCURANCY: 10m (with optimum signal conditions)	
WIFI	NO	IEEE 802.11 b/g/n Frequency Band: 2.4GHz
INPUTS	1 IGNITION INPUT: FOR UNDER-KEY APPLICATIONS (0-36 VDC) 1 UPDATING ENABLE INPUT: TO ENABLE THE SOFTWARE REMOTE UPDATE (0-36 VDC)	
SENSORS	NO	IMU
STATUS INDICATION	No. 3 leds lights	
CONNECTIONS	ANTENNA: x2 SMA FEMALE P.S.+ COM: M12 8PIN MALE	Adding ANTENNA: x1 SMA FEMALE COM: M12 4PIN MALE
ENCLOSURE	ABS (UL94 V0)	
TEMPERATURE	OPERATIVE: -35+75°C STORAGE: -40+80°C	

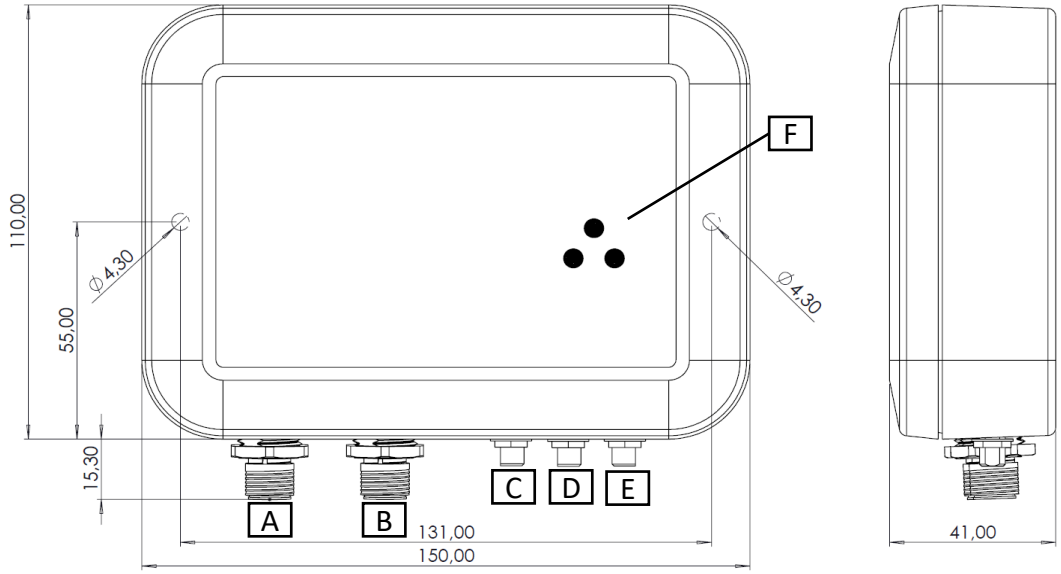
Scan me

ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - Tel. +39 0173 742821 - www.almec.net - info@almec.net
We reserve the right to make technical alterations without prior notice

ELECTRONIC FEATURES

SIM CARD	Included micro-SIM card • Non-steered roaming SIM with worldwide coverage • M2M Multi-network SIM card
SNIFFERING PROTOCOL	CANOPEN – J1939 – custom on request (OBDII/CAN FD)
WEB INTEGRATION	Data collected by communication ports are displayed on the DIABOARD portal
CYBER SECURITY	Encrypted communication between gateway and portal
IGNITION KEY	digital input for switch ON/OFF management

SIZE (mm)



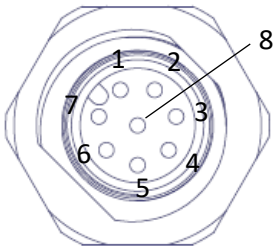
THE DEVICE MUST BE FIXED BY OPENING THE TWO SIDE LIDS ON THE FRONT OF THE BOX; RECOMMENDED SCREW: M4 LENGTH 6mm

A - M12 8 PIN, MALE CONNECTOR: POWER SUPPLY + COMUNICATION PORTS
B - M12 4 PIN, MALE CONNECTOR: OPTIONAL COMUNICATION PORTS
C - SMA, FEMALE CONNECOR: GPS ANTENNA
D - SMA, FEMALE CONNECOR: WI-FI ANTENNA
E - SMA, FEMALE CONNECOR: GSM ANTENNA
F - STATUS LED

ELECTRICAL CONNECTION - pinout

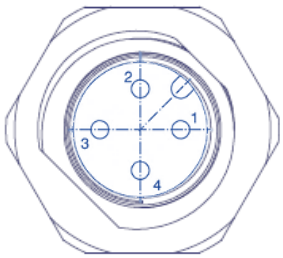
CONNECTOR A) M12 8 PIN, MALE

1	POSITIVE POWER SUPPLY
2	SERIAL PORT TX
3	CAN PORT HIGH
4	SERIAL PORT RX
5	GND POWER SUPPLY
6	IGNITION INPUT
7	CAN PORT LOW
8	UPDATING ENABLE INPUT



CONNECTOR B) M12 4 PIN, MALE

1	SERIAL PORT 2 TX
2	CAN PORT 2 HIGH
3	SERIAL PORT 2 RX
4	CAN PORT 2 LOW



ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - Tel. +39 0173 742821 - www.almec.net - info@almec.net
We reserve the right to make technical alterations without prior notice

EXTERNAL ANTENNA INCLUDED

EXTERNAL ANTENNA SIGNAL (included)

BASIC VERSION:
GPS & GSM ANTENNA
FIXING BY SCREW AND
DOUBLE-SIDED ADHESIVE

WITH CABLE LENGHT: 3m

FULL VERSION:
GPS, WI-FI & GSM ANTENNA
FIXING BY SCREW AND DOUBLE-SIDED
ADHESIVE

WITH CABLE LENGHT: 3m

STANDARDS

APPROVAL	CE RED
Electromagnetic compatibility - Article 3.1(b)	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN 301 489-19 V2.2.0 EN 301 489-52 V1.1.2
Efficient use of radio spectrum - Article 3.2	EN 301 511 V12.5.1 EN 301 908-1 V13.1.1 EN 300 328 V2.2.2
ENVIRONMENTAL TESTING	IEC 60068-2-64 IEC 60068-2-27 IEC 60068-2-27 IEC 60068-2-30
PROTECTION	IEC 60529 (**IP65**)

ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - Tel. +39 0173 742821 - www.almec.net - info@almec.net
We reserve the right to make technical alterations without prior notice

NOTE