



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



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 ACCURACY: 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	





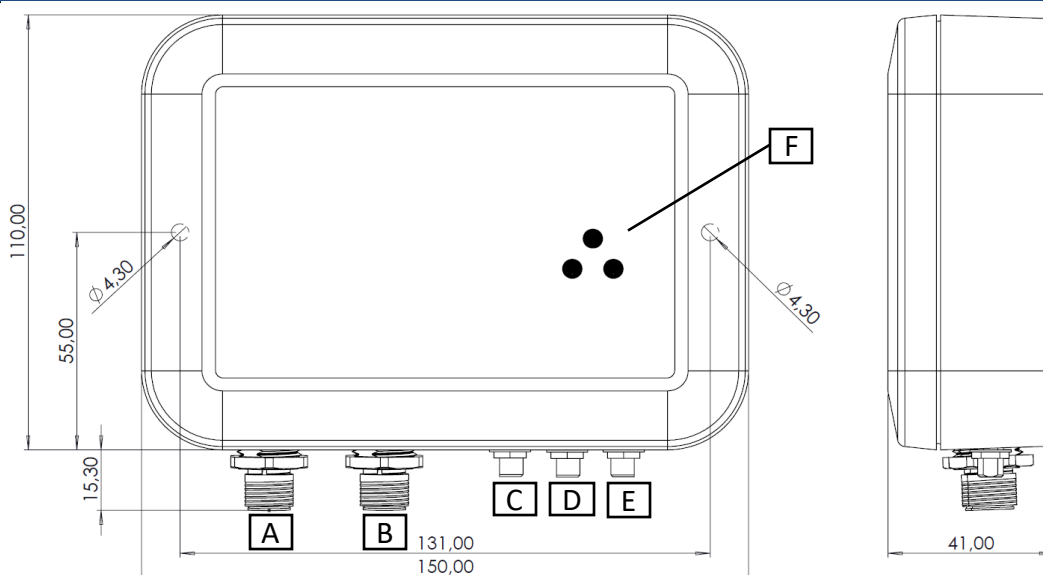
ALMECdiag DEVICE

CAN BUS IoT GATEWAY

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 COMMUNICATION PORTS

C - SMA, FEMALE CONNECOR: GPS ANTENNA

D - SMA, FEMALE CONNECOR: WI-FI ANTENNA

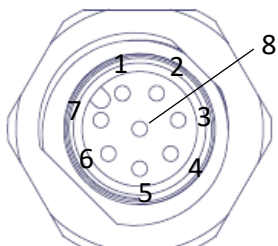
E - SMA, FEMALE CONNECOR: GSM ANTENNA

F - STATUS LED

ELECTRICAL CONNECTION - pinout

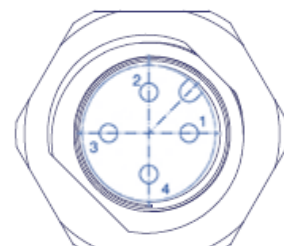
CONNECTOR A) M12 8 PIN, MALE

- 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





ALMECdiag DEVICE

CAN BUS IoT GATEWAY

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)



NOTE