adportas

i2M **Ethernet** LTE v.3

Data gateway
Ethernet based

adportas
™

1. Description.

Adportas i2M Ethernet LTE v.3 is a data *Gateway* that connects industrial equipment with serial data communication ports (RS232 and RS485) and equipment based on *Ethernet* communication to the *Internet* via mobile network or *WIFI*. Its main uses are remote process monitoring, telemetry and geolocation (through built-in GPS). This complex integrated network communications system was fully programmed, electronically designed and assembled by *Adportas' software and hardware* departments, thinking of offering a solution with the most cost-effective possible relation for our end customers.

Adportas i2M Ethernet LTE v.3 is a transparent bridge between the end user and the connected device, as it does not involve an external server to establish communication, allowing direct connection to your private mobile network.

Adportas i2M Ethernet LTE v.3 has a web server that allows remote viewing and configuration of connection data *(APN, Serial, GPS)* in addition to obtaining the location of the device at the requested time. *Adportas i2M Ethernet LTE v.3* allows you to obtain data from the equipment, modify its configuration and even reset the device via text messages *(SMS)*.

Firmware update remotely

Adportas i2M Ethernet LTE v.3 allows remote updating via an update file hosted on a web server visible to the device.

It is also possible to configure an IP for the equipment to check if there is any update available.

Monitoring and administration

In addition to the known protocols, *Adportas i2M Ethernet LTE v.3* can be integrated with proprietary software to monitor and manage equipment, georeferenced equipment can be viewed and heat maps indicate low signal areas or equipment without connection.

Information access and security

Adportas i2M Ethernet LTE v.3 complies with all data integrity and access security standards.
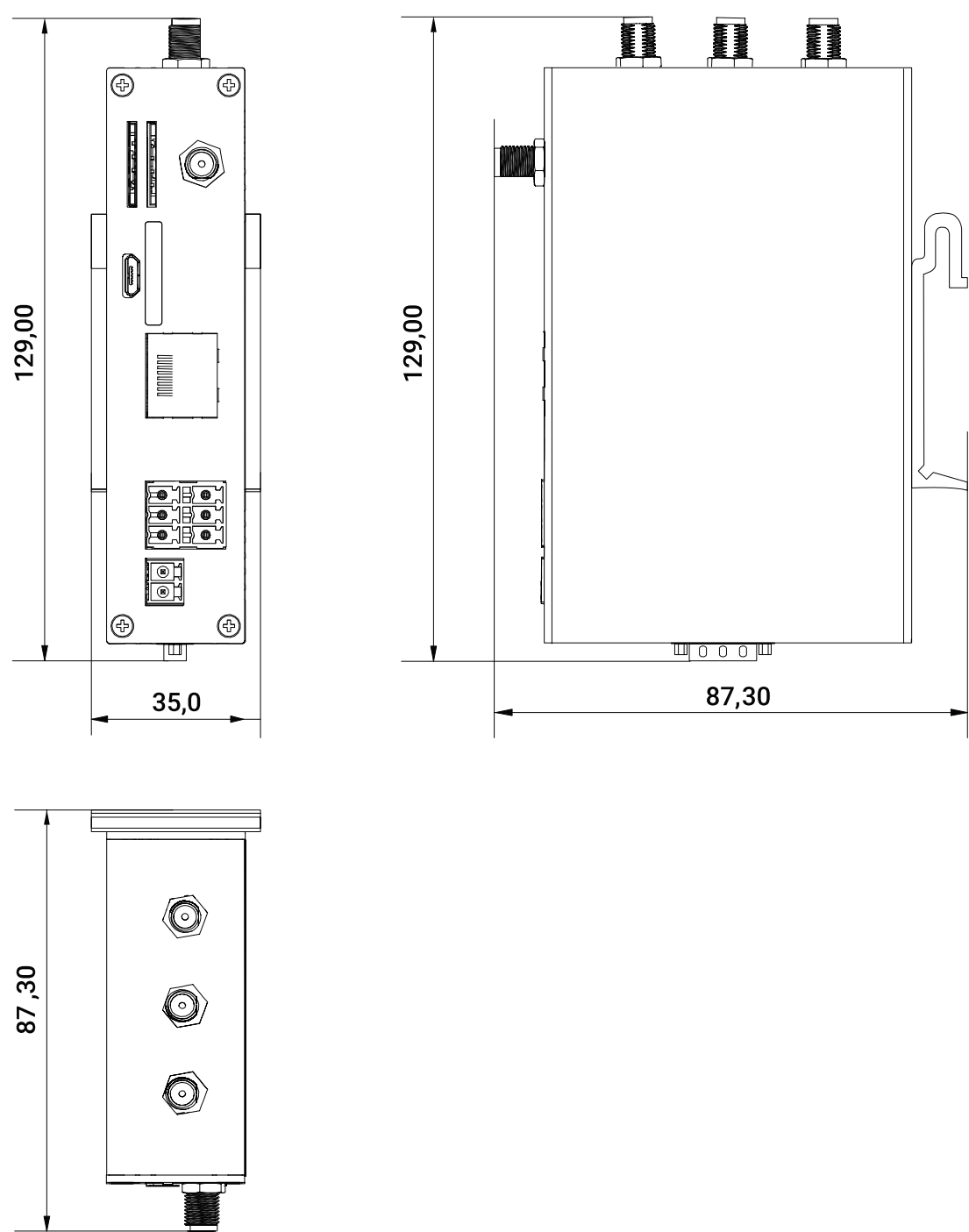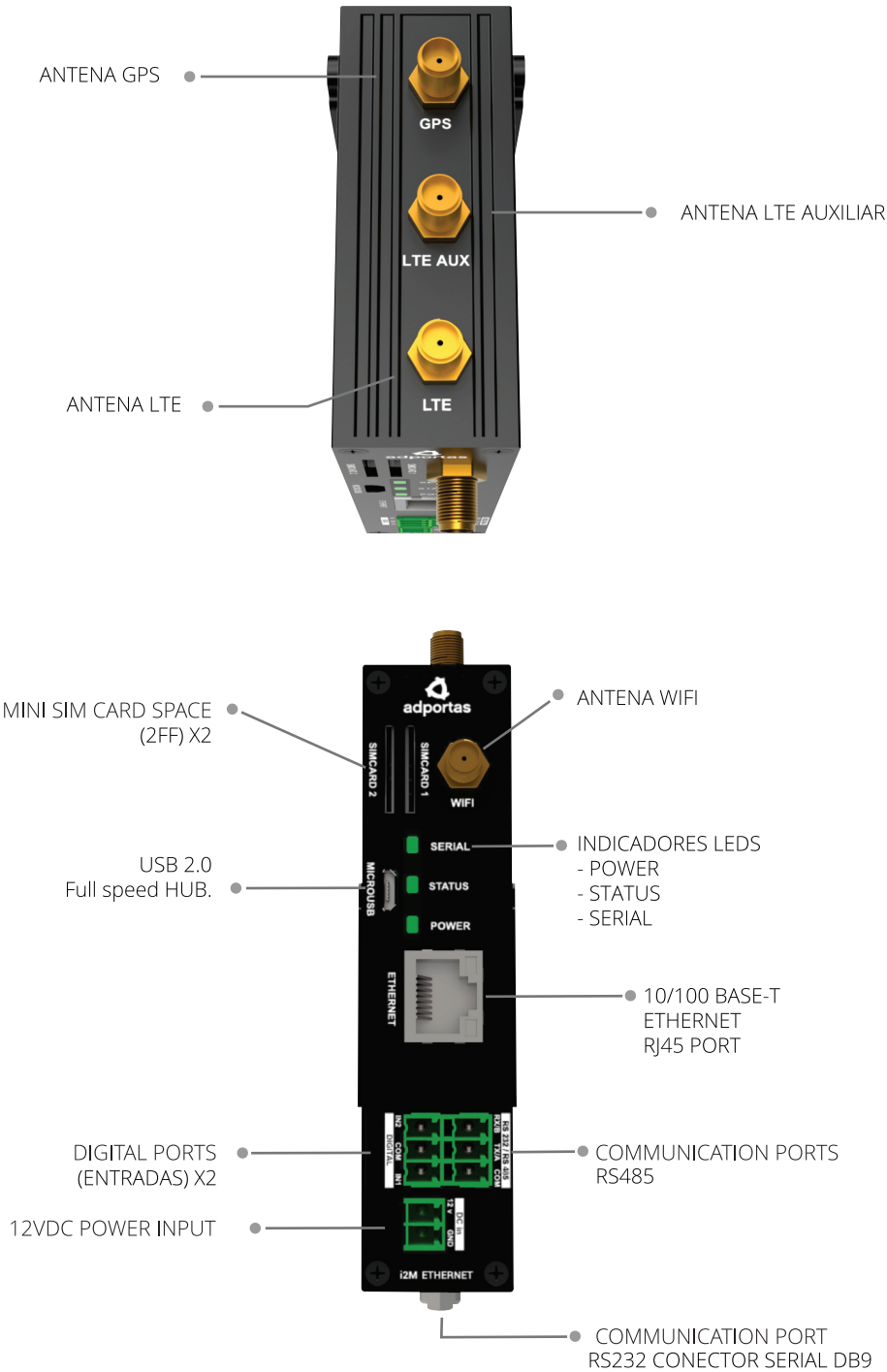
2. Specifications.

· Input voltage: 12VDC @ 1A.
· 2 serial communication ports

· Serial communication: RS232 e Rs485
- RS232: - 2.400 a 115.200 Baud   - RS485: - 2.400 a 115.200 Baud
- Null modem support   - Suporte half e full duplex
- DB9F connector
- Speed: 50bps to 115.2Kbps
- Data bit: 6,7 and 8
- Stop Bit: 1 or 2
- Parity: none, even and odd
- Flow control: none, HW, XON / XOFF

· Wireless communication (mobile network):
       -LTE-TDD: B40 / B66
       -LTE-FDD: B1 / B2 / B3 / B4 / B5 / B7 / B8 / B28
       -MTS / HSPA +: B1 / B2 / B5 / B8
       -GSM / GPRS / EDGE: 850/900/1800 / 1900MH

· Wireless communication (WiFi)
· WLAN Standard: IEEE 802.11 b / g / n
· Mode of operation: AP
· WEP-128 bits WPA (TKIP) WPA-PSK (TKIP) WPA2 (AES) WPA2-PSK (AES) 802.1X (EAP-MD5 / TLS / TTLS / PEAP)

· Ethernet communication
       -10/100 Base-T Ethernet Controller
       - Led LAN Activity
       - 10/100 automatic detection
       - MDI / MDI-X detection

SMA antenna with GPS interface and NMEA protocol
· Digital ports: 2 digital inputs 5-12vdc

· Dual SMA connector for external 4G antenna. (Diversity, dual radio circuit)
· Number of supported SimCards: 2
· SimCard Format: Mini SIM (2FF).
· Local configuration: via micro USB type B (USB 2.0).
· Remote and local configuration: web portal

· LED indicators:
       - Power: indicates that the equipment is turned on.
       - Status: indicates whether or not you are connected to the network.
       - Serial: indicates if there is activity on the serial communication bus (RS232 and Rs485).

· Operating temperature: -20°C to 70°C.
· Operating humidity: 5% to 95%.
· Installation Type: DIN Rail Mount

2. Physical Characteristics.

Body: Black anodised aluminium.
Product dimensions in millimeters:

129,00

35,0

129,00

87,30

87,30

4. Parts and Specifications

ANTENA GPS

ANTENA LTE AUXILIAR

ANTENA LTE

MINI SIM CARD SPACE
(2FF) X2

ANTENA WIFI

USB 2.0
Full speed HUB.

INDICADORES LEDS
- POWER
- STATUS
- SERIAL

10/100 BASE-T
ETHERNET
RJ45 PORT

DIGITAL PORTS
(ENTRADAS) X2

COMMUNICATION PORTS
RS485

12VDC POWER INPUT

COMMUNICATION PORT
RS232 CONECTOR SERIAL DB9