



Data gateway

1. Description.

Adportas i2M Mini LTE-BPS2 is a data gateway that allows you to connect industrial units that have serial data communication ports (Rs232 and RS485) to the Internet via a mobile network. Its main uses are the remote monitoring of processes and/or sensors (4 digital inputs), telemetry, and geolocation (via integrated GPS).

This complex integrated network communications system has been entirely programmed, electronically designed and finally assembled by the Adportas software and hardware departments in order to offer a great cost/benefit solution for our end customers.



Adportas i2M Mini LTE-BPS2 is a transparent bridge under TCP / IP protocol between the connected device and the end user, as it does not need an external server to establish communication, allowing direct connection to your private mobile network.

Adportas i2M Mini LTE-BPS2 has a web server that allows remote viewing and configuration of connection data (APN, Serial, GPS), also providing the device location when necessary.

Adportas i2M Mini LTE-BPS2 allows you to obtain data from the equipment, modify its configuration and even restart the device through text messages (SMS). Supports sending messages by digital activation or power loss.

2. Specifications.

- Input voltage: 12VDC @ 1A. -Adaptor 90-240VAC / 50-60Hz
- · Comunicação serial: RS232 and RS485 (de 2400 a 115200 Baud). - RS232: - 2.400 to 115.200 Baud. - RS485: - 2400 and 115200 Baud - Null modem support - Half e full duplex support
 - -Suporte HW handshaking - Conector DB9F
- · Wireless communication (mobile network): -LTE-TDD: B40 -LTE-FDD: B1 / B2 / B3 / B4 / B5 / B7 / B8 / B28
 - -MTS / HSPA +: B1 / B2 / B5 / B8 -GSM / GPRS / EDGE: 850/900/1800 / 1900MH
- · Speed characteristics (mobile network):
 - LTE CAT4 Uplink 50Mbps / Downlink 150Mbps
 - HSPA + Uplink 5,76 Mbps / Downlink 42,0 Mbps
 - UMTS Uplink / Downlink 384,0 Kbps EDGE Uplink / Downlink 236,8 Kbps

 - GPRS Uplink / Downlink 85,6 Kbps
- Antenna
 - Frequency range: 700-2700 Mhz
 - Gain 7dBi
- WLAN Standard: IEEE 802.11 b / g / n
 - Wireless communication (WIDI), for configuration and / or reading.
- · Operator Mode: AP - Wireless communication (WIDI), for configuration and / or reading.
- Clock: SNTP, NITZ (network identity and time zone) or GPS in selectable UTC format.

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^{adportas} I<mark>2MMini</mark> LTE-BPS2

- Digital ports: 4 isolated inputs. - Voltage range 12 - 50 VDC
- LAST GASP power backup per supercapacitor, 3 minutes minimum autonomy *.

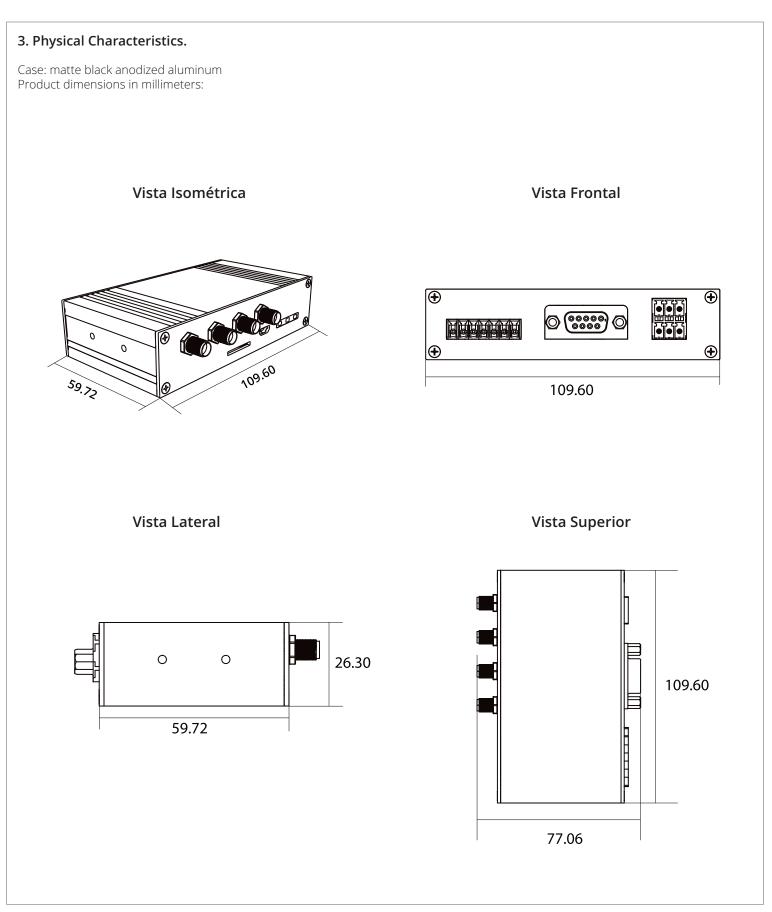
Time insured with a minimum charge period of 25 min. Exposing the equipment to temperatures above 65°C can shorten the life of the supercapacitor and therefore shorten runtime.

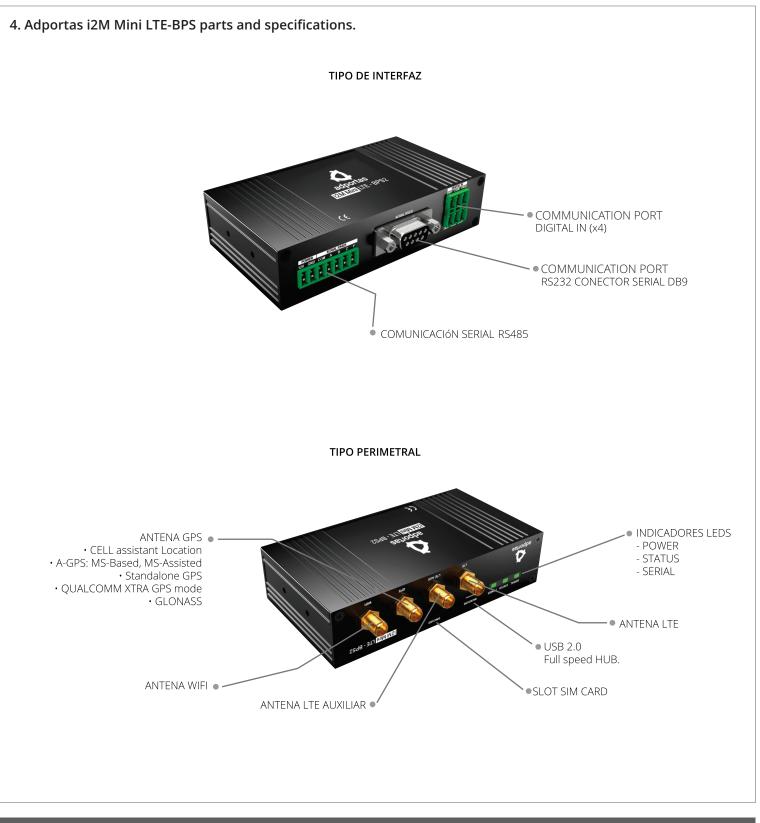
- · Dual SMA connector for external 4G antenna. (Diversity, dual radio circuit)
- Number of supported SimCards: 1
- SimCard format: Mini SIM (2FF) 1.8 / 3.0V.
- Configuration: via the web through a viewing and configuration portal.
- Watchdog integrated by HW and SW
- LED indicators:
 - Power: indicates 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/or Rs485).
- Operating temperature: -20°C to 70°C.
 - Relative humidity: 90%
- Installation type:
 - By screws.
 - Optional: Din Clip for rail installation.
- Security protocols
 - Input / output port filter.
 - Password management (complexity, minimum characters, etc).
 - Option to change the equipment's default passwords.
 - Option to disable the services you do not want to use (SNMP, FTP; etc).
 - OpenVPN
- Firmware Update

- The equipment software update will be done directly through a USB connection or remotely pointing to a valid web address within the network.

• Schedule

- The i2M Mini LTE-BPS2 has an OpenLinux operating system, which allows you to run most popular Linux commands. Pearl and/or C files can be embedded.





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