

DinBox LoRa Terminal

Industrial RS-485/LoRa Converter

Approved by Bausch Datacom!

RS-485-LoRa Converter

is a wireless data transmission terminal based on LoRa Spread Spectrum Communication technology. It can provide wireless data transmission function by LoRaWAN network. The product uses a high-performance industrial-grade LoRa solution with embedded real-time operating system. It provides RS232 and RS485 (or RS422) interfaces, to achieve data transparent function. The terminal has a low-power design, the minimum power consumption is less than 5mA@12VDC. It provides 5 I/O implementing digital input and output, analog input, pulse counting, etc.



Product Highlights

- Low-power design
- Metal casing, IP30 protection
- Suitable for most industrial control applications.
- Wide range power input (DC 5~36V)
- RS232/RS485/RS422 interface (15KV ESD)

Typical Applications

- IoT M2M environments
- Smart Grid
- Intelligent transportation
- Smart Home, mobile POS terminals
- Industrial Automation, intelligent building...

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DinBox LoRa Terminal specifications

The DinBox LoRa Terminal is ideal for connecting serial over RS-232/485 devices, such as electricity meters over LoRa to Gateways. The data is converted and transferred transparently from RS-485 over LoRa RF. Also the device has integrated DI/DO/AI and Pulse counting and can transport these alarms, notifications over LoRa.

Housing

- Housing: Metal casing, IP30
- Dimensions: 91 x 58.5 x 22mm
- Weight: 205g

Power Supply

- 12V/0.5A
- Range: DC: 5~36V

Power Consumption

- TXD: 60.3~61.2mA@12V
- RXD: 13.2~13.4mA@12V
- Sleep: 3.1~3.2mA@12V
- TXD: 107.3~115.1mA@5V
- RXD: 26.1~26.2mA@5V
- Sleep: 7.3~7.4mA@5V

Processor Engine

- Industrial-grade 32-bit processor
- 128 KB
- 16 KB

Certification

- CE
- FCC

Environmental

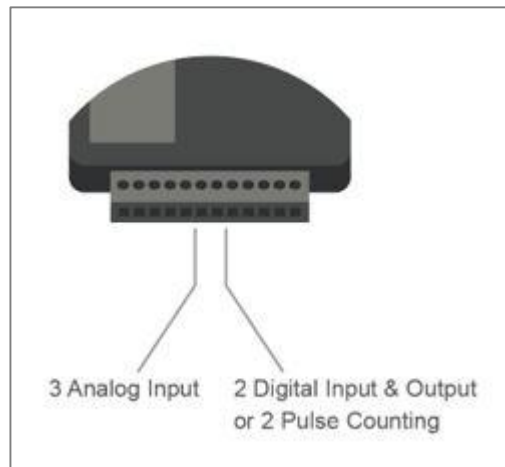
- Operating Temperature: 40~+85 °C 40~+185°F)
- Storage Temperature: 40~+125 °C (-40~+257°F)
- Relative Humidity: 95% (non-condensing)

LoRa Engine

- Band: EU433, CN470-510, CN779-787, EU863-870, US902-928, AU915-928, AS923, KR920-923
- Urban Communication Distance: 1km (2km optional)
- Output Power: 20dBm (100mW) (30dBm (1W) optional)
- Speed Rate: 6 level adjustable (0.3, 0.6, 1.0, 1.8, 3.1, 5.5Kbps)
- Sensitivity: -140dBm

Interface & Connectors

- Serial Port: 1x RS232 and 1x RS485 (RS422) interface (15KV ESD)
- Data bits: 8 bits / Stop bits: 1 or 2 bits / none, even parity, odd parity
- LED Indicators Power, Communication, LoRa
- Antenna: Standard SMA female antenna, impedance: 50 Ω
- Power: Terminal block interface with built-in phase-reversal and over-voltage protection



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