CE FC RoHS Pb Pb-Free

**DIGITAL SOLUTIONS**

# LoRa Serial Converter

## DS-DC1430 EU433
## DATASHEET

CEPREI Alibaba Cloud IoT

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## Packing List

| Number | Name | Count |
|---|---|---|
| 1 | DS-DC1430 EU433 | 1 |
| 2 | EUI Duplicate | 3 |
| 3 | Certification | 1 |

### Product Overview

The LoRa Serial Converter DS-DC1430 EU433 uses the second-generation LoRa module and supports LoRaWAN and LoRaPMAC protocols. LoRaPMAC introduces LoRa repeater technology to provide special optimization for wireless ModBus meter reading. Supports Type-C USB connection, using debugging tools, you can easily configure and operate, with great convenience. The LEDs on the panel can easily indicate the working status and signal level of the device. It has two buttons to view and set the common parameters of the device. This product has the characteristics of small size and convenient use.

### Model Illustration

DS-DC1430 EU433

**DS:** Digital Solution
**DC:** DC Power Supply
**14:** 10 Series Product
**EU433:** Frequency
**30:** Output 30dBm
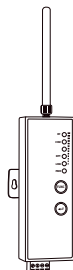
### Applications Scenarios

Public Places | Office | Aapartment | Classroom | Warehouse | Server Room

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### Basic Function

- Standard LoRaWAN 1.0.2 communication protocol
- Private LoRaPMAC communication protocol
- Working mode: LoRaWAN Class C
- Upgrade method: OTA air upgrade/RS485 serial port upgrade
- Type-C USB configuration function
- Remote AT Command
- Support level 1 wireless relay function
- Support monitor serial data
- Data collection: PPTM automatic polling collection system
- Indicators indicate device status
- Configure wireless channel
- Configure wireless communication speed
- Configure relay function
- Configure series rate
- Configure communication protocol
- Check communication protocol
- Check signal strength

### Technical Specification

- DC Power Supply: 9~36Vdc
- AC Power Supply: 9~24Vac
- Type-C USB power supply 5Vdc
- Working temperature: -20 ~ +70℃
- Storage temperature: -40 ~ +85℃
- ESD：Level 2 (4KV)
- Frequency: EU433
- Transmit power: maximum +30dBm
- Receive sensitivity:-133dBm（SF10@BW125KHz）
- Static power consumption: typical 35mA@12Vdc
- Transmit power consumption：typical 530mA@12Vdc(+30dBm)

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# Certification

This product has been strictly inspected to meet the standards approved for sale.

Inspector: _____

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## Machine Dimension

Unit: mm，Tolerances: ±0.2mm

99.7
23
9
39
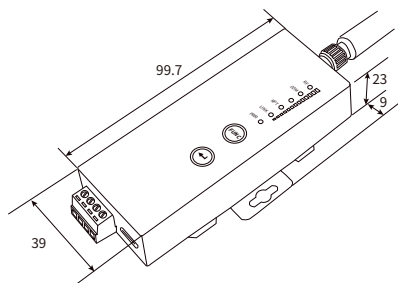
## Installation Instructions
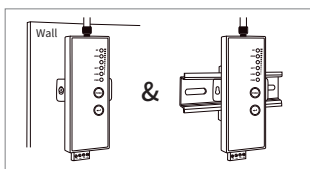
Wall
❶ Wall/Din-Rail Mount
❷ Connect RS-485 AB cable and power cord
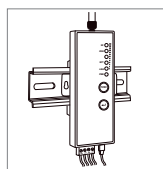
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## Hardware Description

RF Port
Function Button
Enter Button
AC/DC Power Port
RS-485 Port
Type-C USB Port

LoRa RF Indicator
RS-485 RF Indicator
Relay Status Indicator
LINK Status Indicator
Power Indicator
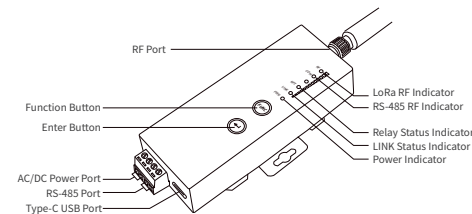
| Name | Function | Note |
|---|---|---|
| RF Port | LoRa RF export | Using external SMA interface antenna |
| Function Button | Function/ Switch | -- |
| Enter Button | Modify/ Confirm | -- |
| AC/DC Power Port | Power port | DC power supply range 9~36Vdc, AC power supply range 9~24Vac Recommended DC power adapter parameters: 9Vdc@300mA, Ac power adapter parameters: 9Vac@500mA |
| RS-485 Port | Transparent port | The default baud rate is 9600bps, the range is 1200~115200bps |
| Type-C USB Port | Debug port | Baud rate 115200bps |

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| LoRa RF Indicator Light | Indicates LoRa wireless transceiver status | Wireless data reception, flashes once Wireless data transmission, flashes once Idle, OFF |
|---|---|---|
| RS-485 RF Indicator Light | Indicates RS-485 serial port transceiver status | Serial port data reception, flashes once Serial port data transmission, flashes once Idle, OFF |
| Relay Status Indicator Light | Indicates relay on/off/ forwarding status | Data forwarding, flashing once Relay is on, always on Relay is off, always off |
| LINK Status Indicator Light | Indicates the wireless connection status of the device | During the LoRaWAN network connection process, bright quickly LoRaWAN is connected to the network, always on LoRaWAN is not connected to the network, always off LoRaPMAC is active, always on, within 30s after receiving wireless data, it shows as active LoRaPMAC is not active, always off |
| Power Indicator Light | Indicates device mode status | Device status indication，always on Signal strength indication，always off Wireless communication protocol indication，always off |

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