GDI51x

Multi-channel Indoor gateway of LoRaWAN

Specification

ManThink Technology Co., Ltd.

1. Product Introduction

1.1 Product Description

The GD15Lx is an indoor 8-frequency-point, 16-channel gateway designed by ManThink for LoRaWAN systems based on the SX130x. It can efficiently handle large amounts of data, ensuring communication stability and reliability. Suitable for indoor environments such as parks, buildings, and complexes, it provides an ideal IoT solution with its powerful processing capabilities and flexible configuration features.

1.2 Main Features

- Supports POE and Type-C power supply

- Supports 4G, WiFi, and Ethernet

- Seamless connection to TTN, ChirpStack, and BasicStation LoRaWAN NetServers

- 8 frequency points, 16 channels

- Supports US902, AU915, AS923, EU868, EU433, and CN470 LoRaWAN standards

- Supports remote maintenance and upgrade

- Web-based visualization and user-friendly configuration

2. Product Parameters

2.1 Product Image

2.2. Product Specifications

SOC	·LS1012A 64-bit ARM Cortex-A53 800MHz 2W
Memory	·Support DDR3L 1066 MHz ·Memory:512MB
Storage	·8GB EMMC

LoRa	· Operating frequency bands:: CN470 470M～510MHz EU868 863M～870MHz EU433 433M～434MHz AS923 920M～928MHz US902 902M-928 MHz AU915 915M-928 MHz · Communication Rate: 292bps to 5.4kbps, supports SF7 to SF12 · Transmit Power: 22dBm (Max) · Antenna Type: Omnidirectional · Channels and Operating Mode: Supports up to 8 frequency points, 16 channels, half-duplex · Single Channel Bandwidth: 125KHz or higher
Data backhaul	· Ethernet: 1000M/100M · 4G **Note:** The gateway uses CAT1 module for 4G uplink by default, supporting the following frequency bands: LTE-FDD: B1/3/5/8; LTE-TDD: B34/38/39/40/41. If the operator's frequency band in the planned deployment area is not within the above, please contact ManThink technical personnel to replace the appropriate 4G module.

SIM card interface	· nano SIM external interface (no need to open the cover for replacement)
Timing	· GPS/BeiDou
Configuration ports	· USB-TypeC · Ethernet · WiFi
Power supply	· POE(48V)
Power consumption	· 5W
Environmental parameters	· Operating temperature：：-40℃～70℃ · Operating humidity：0%～95%RH · Water and dust resistance：IP53
Weight	· 0.3KG
Dimensions	· 151mm x 125mm x 30mm
Installation method	·Wall mounting or free placement.

3. Product Models

Model List	Function
GDI514-AGEU433-N	8 channels 4G, EU433 standard version
GDI514-AGCN470-N	8 channels 4G, CN470 standard version

GDI518-AGAS923-N	8 channels 4G, AS923 standard version
GDI518-AGEU868-N	8 channels 4G, EU868 standard version
GDI518-AGAU915-N	8 channels 4G, AU915 standard version
GDI518-AGUS902-N	8 channels 4G, US902 standard version

Note: The indoor gateway GD15Lx does not support GPS by default. If GPS functionality is required, please contact ManThink technical personnel.

4.Contact Us

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