

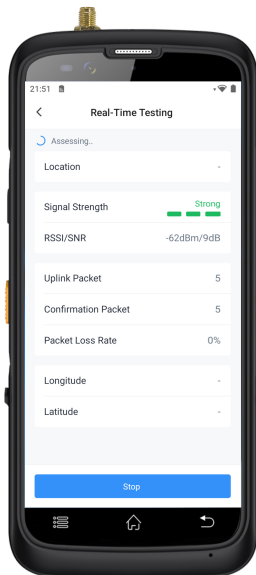
Field Tester

Featuring LoRaWAN®

FT101



psi technologies



FT101 Field Tester is a portable LoRaWAN® network testing device. With different kinds of antennas, it can support global LoRaWAN® frequencies to record the signal status and packet loss rate to monitor the network status from field and verify the coverage of different LoRaWAN® gateways, to optimize the best places to deploy LoRaWAN® network devices. Equipped with a 5.72-inch touchscreen display, users are able to operate the signal test procedure and monitor the real-time network status. With a built-in battery and type-C port, it can work for 8 hours and support type-C power bank charge to carry the device everywhere easily.

Features

- Octa-core processor with Android system and big memory for flexible integration
- Built-in one-channel SX1262 LoRaWAN® module for signal test
- Support global LoRaWAN® frequencies with different antennas
- Compatible with any standard LoRaWAN® gateways and global mainstream network servers
- Support to get RSSI and SNR of the gateway and statistics of packet loss rate between gateway and nodes
- Support GNSS positioning to record the location of the test field
- Straightforward user interfaces presented on a 5.72-inch touchable LCD screen
- With a built-in rechargeable lithium battery that works for 8 hours
- Support real-time data backup and charge through a USB type-C port

Specifications

Display

Screen	5.72-inch TP LCD Touch Screen
Resolution	1440 x 720 Pixels

Hardware System

CPU	Octa-core MTK6762, 2 GHz
Memory	4GB RAM + 64GB ROM
Operating System	Android 12.0
NFC	Support ISO/IEC 14443A Protocol, Reading Distance: 1-3cm
Extendable Storage	1 × Micro SD Slot Support up to 256G

LoRaWAN®

Channel	1
Antenna Connector	1 × 50 Ω SMA Female Connector
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-137dBm@125kHz, SF=12
Max Output Power	19dBm (470 MHz) /16dBm (868 MHz)/22dBm (915 MHz)
Protocol	LoRaWAN® V1.0.3
Work Mode	OTAA Class A
Configurable Parameter	Frequency Channel, ADR, Spreading Factor, Tx Power

Interfaces

Wi-Fi	IEEE 802.11 b/g/n, 2.4 GHz IEEE 802.11 a/n/ac, 5 GHz
Bluetooth	Bluetooth 4.0 (BLE)
Cellular	SIM Card Slot: 1 × Nano SIM Frequency Bands: LTE FDD: B1/B3/B5/B7/B8/B20 LTE TDD: B38/B39/B40/B41 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8
GNSS	GPS/Glonass/Beidou/Galileo
Rear Camera	13MP, Autofocus with Flashlight
Speaker	8Ω/0.8W
Microphone	Sensitivity -42db, Output Impedance 2.2kΩ
USB	1 x USB 3.0 Type-C Port for Power & OTG

Physical Characteristics

Power Supply	1. Built-in 4.3V/4300mAh Lithium-iron Chargeable Battery 2. 5V= 2A by USB Type-C
Battery Life	Around 8 Hours (Standby Mode: >300h)
Operating Temperature	-10°C - 50°C
Storage Temperature	-20°C - 60°C
Relative Humidity	95% (Non-condensing)
Color	Black
Dimension	178 × 83 × 17 mm (7 × 3.26 × 0.67 in)
Weight	242 g (Without Antenna)