Milesight Field Tester

Featuring LoRaWAN®

FT101

Milesight 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 friendly. With a built-in battery and type-C port, it can work for around 8 hours and support type-C power bank charge to bring 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
- Compatible with Mileisght ToolBox App to configure Milesight sensors via NFC or Bluetooth
- Support noise scan to optimize the locations and configurations of gateways
- Support signal evaluation to optimize the locations and configurations of devices

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- Support ping pong to simulate the connection between end device and gateway for cost effective and efficient field testing.
- Support to simulate the parameters of Milesight devices for accurate results
- Support to get RSSI and SNR of the gateway and statistics of packet loss rate between gateway and devices
- 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 around 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[1]	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-137dBm@125kHz
Max Output Power	19dBm (470 MHz) /16dBm (868 MHz)/22dBm (915 MHz)
Protocol	LoRaWAN® V1.0.3
Work Mode	OTAA Class A
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)
GNSS	GPS/Glonass/Beidou/Galileo
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[3]	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
Ingress Protection	IP65
Dimension	178 × 83 × 17 mm (7 × 3.26 × 0.67 in)
Weight	242 g (Without Antenna)
Approvals	
Regulatory	CE

[1] It requires different antennas for different frequencies.

[3]Tested under laboratory conditions and for guideline purposes only.

◆ Dimensions(mm)