# PORTABLE TESTER ANDROID FTTx 4G

AR-NETT-FTTX-A

# 1 Features

## Model: AR-NETT-FTTX-A

### FEATURES

1. Equipped with a 6-inch 2160*1080 IPS true color LCD and a multi-point touch screen
2. Android 13 operating system
3. Support 4G network
4. Dual 2.5G Ethernet network ports, supporting over 2G wired speed measurement
5. Support 160MHz WiFi6 speed measurement
6. Rechargeable 6000mAh polymer battery
7. Front camera with 800W pixels.
8. Rear camera with 1600W pixels, supporting autofocus and flash
9. Support 10G PON selective power meter and VFL function
10. Support flashlight function
11. Support HDMI function
12. Support NFC function

## 2 Specifications

| Items | | Specifications |
|---|---|---|
| Main unit | Body material | ABS+PC |
| | Size | 168*82*22.2/29.65mm |
| | Weight (with battery) | 400g |
| Communication | Network | 2G、3G、4G |
| SIM Card | Built-in card slot | Nano-SIM , Card slot (dual card) |
| Radio frequency | Working frequency band | LTE-FDD:B1/B3/B5/B7/B8 |
| | | LTE-TDD:B34/B38/B39/B40/B41N |
| | | WCDMA:B1/2/5/8 |
| | | GSM:B2/3/5/8 |
| System parameter | CPU | UNISOC UMS9620 8-core; Main frequency@2.2GHz |
| | Memory | 4GB+64GB |
| | Software | Android 13 |
| Display | Size | 6inch |
| | Type | IPS LCD |
| | Resolution | 2160*1080 |
| | Touch screen | 5-point touch |
| Interface | Camera | Front camera: 8 million pixels |
| | | Rear camera: 16 million pixels |
| | Earphone | 3.5mm earhpone |
| | Charging port | Type-C |
| | USB port | Type-C |
| | OTG | Support |
| | TF card | Support (512G maximum) |
| | OPM port | 800nm~1700nm |
| | VFL port | Working wavelength：650±20nm |
| | HDMI | HDMI play function |
| | Wired Ethernet port | Dual 2.5G RJ45 port |
| Power supply | Input voltage | 100-240 AC |
| | Output voltage | 5V/2A DC |
| Battery | Model | PLM635560 |
| | Capacity | 6000mAh |
| Power consumption | <10W | |
| Standby time | >120hours | |
| Accessory | Power adapter | 1 pcs |
| Others | Protection level | IP65 |
| | Working humidity | 20%~95%(No condensation) |
| | Atmospheric pressure | 86-106Kpa |
| | Working temperature | -10℃~+60℃ |
| | Storage temperature | -20℃~+70℃ |

*Product specifications and descriptions are subject to change without prior notice.

## 3 Main functions

1. Wired Speed test
   - Equipped with dual 2.5G RJ45 wired interfaces
   - Support 2.5G wired speed measurement, with a maximum speed of 2300Mbps
   - Support network connections method such as DHCP, static IP, PPPoE dial-up,etc
   - Support network layer testing functions such as Ping, Ipconfig, Route, Tracert, etc
   - Support PPPoE dial-up

2. Wifi Speed test
   - Support WIFI 5 and WIFI 6 (IEEE 802.11 ax) protocols
   - Support IEEE 802.11 a/b/g/n/ac/ax, WiFi supports 2.4G and 5G dual band
   - Support 160MHz WIFI6 test, can reach maximum 1800Mbps speed measurement

3. Optical power meter test
   - Wavelength range: 800nm~1700nm
   - Calibrated wave: 850/1270/1300/1310/1490/1550/1577/1625nm
   - 10G PON selective OPM: support 1490nm/1577nm selective power level measurement
   - Resolution: 0.01dB

4. VFL function
   - Working wave: 650nm±20nm
   - Output power: 10mw
   - Working mode: CW/2Hz

5. Network packet capture function

Connect the two RJ45 interfaces of the device in series, with one end connected to the upper end device of the network and the other end connected to the lower end device of the network. Realize the capture of data content, including but not limited to: link layer, network layer, transport layer, and application layer data.
Data can be continuously captured through embedded packet capture software or devices, and the saved formats of the obtained data packets include but are not limited to PCAP format. The data packets can be fully exported through the terminal for analysis.

## 3 Main functions

### 6. TV simulation function

By connecting the HDMI interface of the device to the HDMI video cable of the set-top box, the HDMI signal output from the set-top box can be received. After automatic recognition and analysis of the video source resolution, the device plays and displays the sound and video content through the terminal. Supports 4K set-top boxes and downward compatibility, allowing manual selection of 4K/1080P/720P different image quality. The picture should be clear and not blurry, supports sound playback and can control channel mode. The volume up and down keys can control the TV volume. Support video recording and playback viewing functions

### 7. Video troubleshooting function

By connecting the two RJ45 interfaces of the device in series, one end is connected to the video network port of the upper ONU, and the other end is connected to the network port of the lower set-top box. The proprietary IPTV troubleshooting analysis function software can be launched to analyze the IPTV network protocol and network configuration, including the transmission protocol encapsulation format Source Mac、Dest Mac、Vlan priority、IP Tos、IP ttl、Source IP、DestIp、Source Port、Dest Port、Rtp Type. Support service data transmission quality testing, with testing indicators including IP packet quantity, business data transmission rate, jitter, packet loss, etc

### 8. Remote control function

The device has the function of remote control of VFL and OPM, and can use WeChat mini-program to remotely control the VFL switch, making it convenient to directly conduct relevant tests remotely.

### 9. Dial test function

Equipped with a dial test function, the device can be placed at the user's home as a testing probe when there are intermittent network issues or specific time periods of problems. Speed measurement tasks can be created, and the serial number of the testing equipment can be entered manually or by barcode scanning. The number of tests and testing intervals can be set, and the data to be tested for dial testing can be selected, including basic device information (MAC, serial number, chip brand, memory, RAM, terminal brand model, etc.), device status information (CPU status, battery status, device temperature, runtime, network layer information, etc.), connected WIFI information, surrounding WIFI information, ifconfig information, ping test information, traceteute test information, speed measurement information, etc. Test records can be viewed.

### 10. Backend message push function

Management personnel can push important information to each installation and maintenance device through the installation and maintenance management backend, and collect and review the results.

## 3 Main functions

The PDA has backend management functions, which can realize the management and statistics of personnel trajectories, real-time and historical record viewing of trajectories, and specific statistical analysis of activities; Management and statistics of activity level, statistical analysis of personnel usage frequency and functions; Analyze personnel, permissions, data, etc. of the management platform to achieve data analysis and comprehensive management of operations and maintenance.
The management platform has a message push function, which can push important notifications, training materials and other information, and can also count the corresponding search results in the background.

### 11. Support SIM card built-in read and write