ZTE

U50
5G Mobile Hotspot

U50 is a ZTE 5th-generation affordable premium 5G portable router that supports the 5G NR Rel.15 technologies and integrates Wi-Fi6, and an large battery of 4500mAh capacity. It enables users to smoothly connect to 5G networks anytime & anywhere on tablets, mobile phones, laptops, and control consoles, allowing incredible new experience in ARs, cloud games, and 4K videos.

Benefits

Ultra-high-speed internet connection

With its compact single-chip architecture, U50 achieves ultra-high performance-to-cost ratio, with a 5G NR download rate of 2.63Gbps, and Wi-Fi 6 downlink rate of AX1800, demonstrating the ultra-high rate and ultra-low latency of 5G networks end to end.

Rich combinations to exploit the potential of spectrum

U50 supports global mainstream 3G/4G/5G frequency bands and combinations of multi-band ENDC, making full use of operators' existing spectrum resources, and providing users with high-speed, wide-coverage, and smooth-handover cellular network roaming experience.

Abundant management and configuration interfaces

U50 supports local configuration management based on Web-UI and mobile apps*, and remote management based on the TR069 and MQTT protocols. This improves user experience and provides cost-effective, efficient, and reliable solutions for operators' requirements for FWA terminal deployment, firmware upgrade, and O&M.

5G NR SA&NSA

5G Up to 2.63Gbps DL rate**

4500mAh Lithium-ion Battery

VPN passthrough

Wi-Fi 6 (11ax) AX1800

ZTE security and stable FOTA

Interface Description

WPS Button

Power On Button

LED: Power / Net / WiFi

Portable Wi-Fi Hotspot

USB Type-C Port
(Data/Charging Port)

TS-9 External
Antenna Ports

Specifications

Hardware specifications

5G NR Interface
• 3GPP Release 15
• Supports both NSA and SA modes
• Frequencies:
n1/3/7/8/20/28/38/40/77/78

4G LTE Interface
• DL Category20, UL Category20(FDD)/18(TDD)
• Frequencies:
   B1/3/7/8/20/28/32/38/40

UMTS Interface
• DC-HSDPA/HSPA+
• Frequencies: B1/8

Wi-Fi Technology
• Wi-Fi6, 802.11b/g/n/a/ac/ax, 2.4G&5G
• MIMO: 5GHz 2MIMO, 2.4GHz 2MIMO
• Speed: AX1800
• Access number: up to 32

Battery
• Nominal capacity (Catalog value): 4500mAh

Artwork
• Dimensions: 118mm*72mm*18mm
• Weight: about 164g

Speed**
• 5G ENDC(LTE FDD + Sub6G): DL 2.63Gb/s, UL 155Mb/s
• 5G SA: DL 1.43 Gb/s,UL 160Mb/s
• LTE FDD:DL 2.0Gb/s,UL 150Mb/s
• LTE TDD:DL 1.46Gb/s,UL 30Mb/s

Interface
• USB Type-C: USB3.0, DATA & Charging
• SIM slot: 4FF/eSIM (default is SIM slot)
• Reset hole to restore factory default
• Power button
• 2 x TS-9 External Antenna Ports* (Support band: n38/77/78)

LED
• Power indication
• WIFI indication
• Network mode indication

Maximum power consumption
• about 5.5w

Environment
• Operating temperature 0 to 35℃
• Storage temperature -20 to 45℃
• Humidity 5% to 95%

Package contents
- AC Adapter (Optional)
    Input: 100-240VAC, 50/60Hz
    Output: DC 5V/2A
- Battery
- Quick Start Guide

Certification
- CE, WEEE, ROHS, Wi-Fi

Software specfications

IP Networking & Routing
- IPv4/IPv6 dual stack (NDP IPv6)
- DHCP server
- VPN client: L2TP\PP2P
- VPN pass-through
- NAT/NAPT
- Sip ALG
- Multiple APNs*

Firewall
- Port Forwarding
- Port Filtering
- Port Mapping
- Domain Filtering
- Upnp
- DMZ
- Remote Access/Ping switch
- MAC address filtering

Special Feature
- PC/Phone/PAD WebUI management self-adaptation
- Device Diagnosis will list all device running key status and give fix solution

Device Managemnt
- Connected device Management
- SMS
- PIN/PUK management
- APN management
- Lock Frequency/Lock Cell
- TR069 with TR181 data model default*
- Upgrade: FOTA
- ZTE Smartlife APP*

Wi-Fi
- Wi-Fi Switch
- Bandsteering
- Security mode: WPA-PSK/WPA2-PSK, WPA2-PSK/WPA3-PSK,WPA2-PSK
- Wi-Fi Broadcast
- Wi-Fi Isolation
- Auto channel selection
- WPS
- Guest SSID support
- Wi-Fi Sleep Mode

* Optional customized features.
** The maximum data rates is a theoretical value. The actual data rates depend on the network environment.
*** ZTE Lab test data.

ZTE Smartlife APP