

Datasheet (GL-AXT1800)

Meet Slate AX

Wi-Fi 6 Gigabit Travel Router



Slate AX (GL-AXT1800) is a next generation highly-secured travel router that provides powerful Wi-Fi 6 network connection. The device runs on the OpenWrt 23.05 firmware (Kernel version 5.4.164) and supports a large capacity TF card storage of up to 512GB for file sharing. Its compact design, easy deployment, and convenience in securing connected devices are perfect for portable use by frequent travelers. Slate AX offers a combined Wi-Fi speed of 1800Mbps (600Mbps for 2.4GHz and 1200Mbps for 5GHz).

Highlights

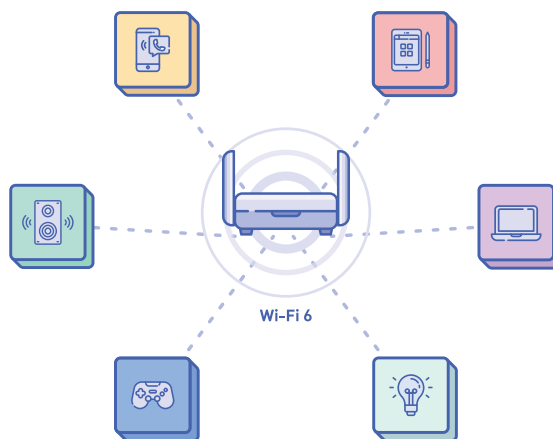
Ultra-Fast VPN Encryption

Slate AX is pre-installed with OpenVPN (Maximum 560Mbps, with DCO support) and WireGuard® (Maximum 550Mbps) supporting 30+ VPN services. It automatically encrypts all network traffic from devices within the connected network, for protecting your devices when connected to public Wi-Fi in hotels, cafes, and public areas. Slate AX can also act as a VPN server, redirecting traffic from client devices in remote locations to the VPN server via a VPN tunnel before accessing the public internet.



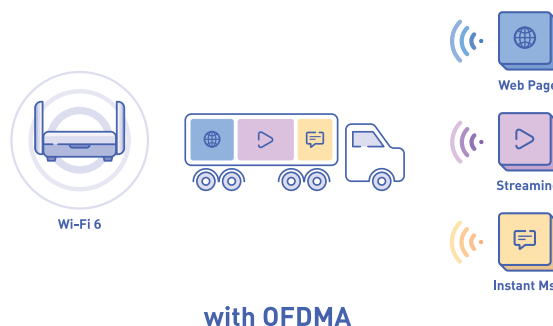
Mass Device Connectivity MU-MIMO Technology

Slate AX comes with MU-MIMO. It processes multiple data streams from client devices simultaneously, instead of queuing network traffic into one data stream, reducing the queuing delay when a large family or a large number of connected devices are using the same network.



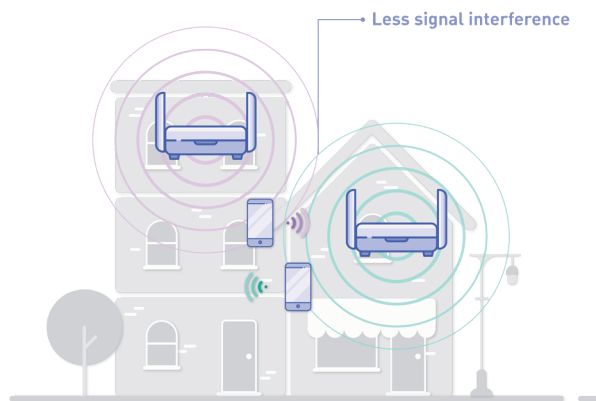
Multi-device Transmission Efficiency OFDMA Technology

Slate AX comes with OFDMA technology (orthogonal frequency division multiple access). It lets multiple devices receive data from a single transmission, drastically improving the transmission efficiency when used by large families or a large number of connected devices during travel.



Stability Improvement using BSS Coloring

Slate AX comes with Base Service Station Coloring (BSS Coloring), it measures operating Wi-Fi channel thresholds, and automatically selects a channel with loose thresholds (Minimal usage) for connectivity. BSS Coloring improves the connection stability when the travel router is being used in a high network density location by minimizing the router's risk of potentially picking up signal interference.



DFS Channel

Slate AX is approved to use Dynamic Frequency Selection, letting the router's 5GHz network use additional frequencies normally reserved by military, satellite, and weather radar applications. The selection of additional channels can lower network congestion under high density network environments.

Note: Slate AX's DFS is applicable in the US, UK, Europe, and Japan. Frequency 5250-5350 Mhz in Japan is not currently available.

Specifications

HARDWARE

CPU	IPQ6000 Quad-core, @1.2 GHz
Memory / Storage	DDR3L 512MB / NAND Flash 128MB
Wi-Fi	802.11 a/b/g/n/ac/ax, 2x2 600Mbps (2GHz) 802.11 a/b/g/n/ac/ax, 2x2 1200Mbps (5GHz)
External Antennas	2 x 2.4GHz + 5GHz two-in-one Wi-Fi Antennas
Ethernet Speed	10/100/1000 Mbps
Power Consumption	Normal operating consumption: <4.5W Operating at full capacity: <8.75W
Dimension / Weight	125 x 82 x 36mm (L*W*H) /245g

SOFTWARE FEATURES

Operating System	OpenWrt
Network mode	Routing, AP, Wireless Bridge, Wired Bridge
Ethernet Dialing Mode	DHCP, Static, PPPoE
Repeater Mode	Scans and connects to SSID Connects to hidden SSID

Wireless Configuration	Switching on and off wireless AP Modifying and hiding SSID Modifying encryption mode and password Channel modification Bandwidth modification Modifying transmission power Guest SSID
Firewall Function	Port forwarding, open port, DMZ
VPN	OpenVPN client & server WireGuard client & server Maximum OpenVPN Speed: 560Mbps (with DCO support) Maximum WireGuard Speed: 550Mbps Policy routing
System Function	Restart Restore factory settings Change IP address range on LAN side Change time zone MAC address clone Advanced DNS Cloud remote management Remote web management Remote SSH management Installing / uninstalling packages

INTERFACE

Ethernet Port	2 x LAN, 1 x WAN
SD Card Slot	TF card, maximum 512 GB
USB Port	USB3.0 Type-A
LED Indicator	1 x dual color LED indicator for Power and Internet
Reset Button	Press (>3s, <8s) restores network settings to device initial state Long press (>=8s) restores factory settings
Power Port	USB Type-C interface, 5V/4A power supply

CERTIFICATION

- CE
- FCC
- MIC
- Rosh
- WEEE
- CCC

ENVIRONMENT

Operating Temperature	0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 65°C (-4 ~ 149°F)
Operating Humidity	5%~95%, non-condensing
Storage Humidity	5%~95%, non-condensing

