

Datasheet

Meet GL-S200

Multi-protocol Thread Border Router

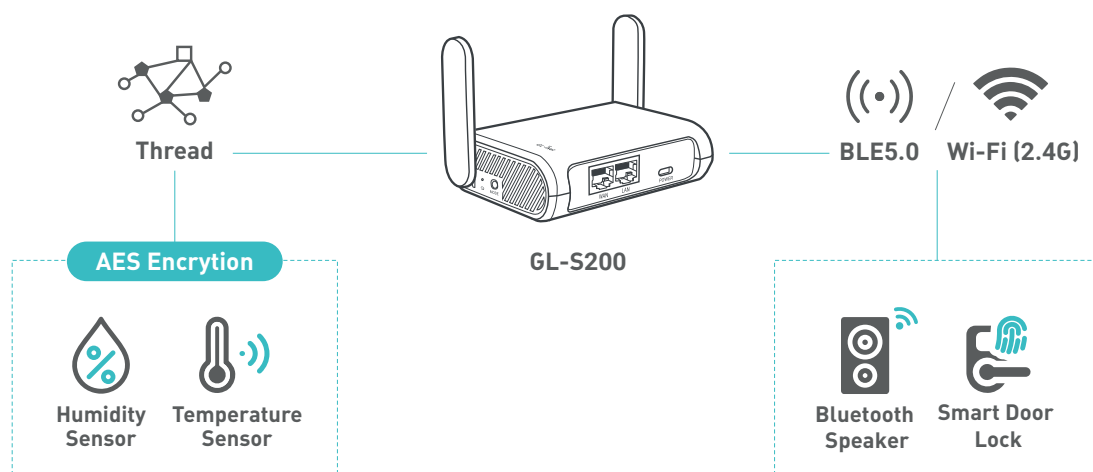


GL-S200 is a Thread Border Router that connects Thread or BLE networks to Wi-Fi or Ethernet networks. It can host large scale IoT mesh networks for devices efficiently at low power consumption, and it has automatic pathfinding capabilities that reroutes traffic to maintain a reliable network connection. The S200 is suitable for use in smart homes, smart buildings, and industrial IoT deployments.

Highlights

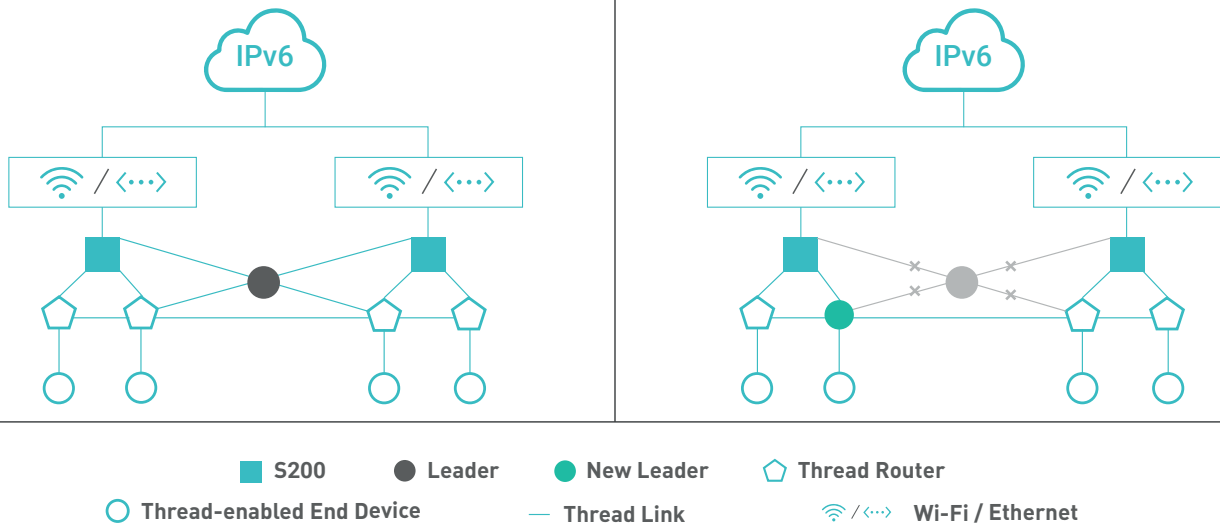
Thread & BLE Dual-protocol

GL-S200 supports both BLE protocol for connecting to traditional devices and Thread protocol for establishing a mesh thread network to connect with the latest smart home devices. Devices that are using GL.iNet's Thread terminal board also display the network topology and data including temperature, humidity, light, and pressure.



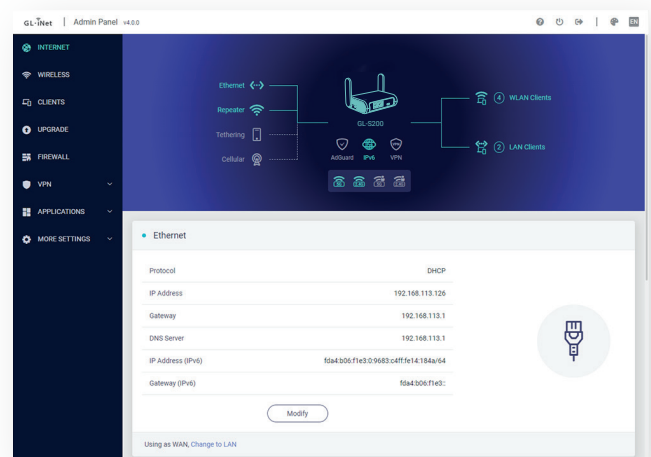
Self-healing Network

All thread-enabled devices are interconnected with multiple routers in a mesh thread network. If a single router is experiencing an interrupted connection, the thread network automatically re-routes data transmission to the next optimal path.



OpenWrt v21.02

GL-S200 runs on OpenWrt 21.02 firmware, supporting more than 5,000 ready-made plug-ins for customization. Simply browse, install, and manage packages with our no-code interface within S200's admin panel.



Remote Device Management Platform

GL-S200 comes with GoodCloud, our remote device management platform. It lets users conveniently import multiple smart home devices for remote configuration, monitoring data usage, and conducting batch firmware updates.



Specifications

HARDWARE

CPU	QCA9531, @650MHz
Memory / Storage	DDR2 128MB / NOR Flash 16MB + NAND Flash 128MB
Wi-Fi	802.11b/g/n, 150Mbps (2.4GHz)
BLE Module	Siliconlabs EFR32MG21
Thread Module	Siliconlabs EFR32MG21
Internal Antennas	1 x BLE Built-in Antenna
External Antennas	2 x 3dBi Retractable External Antennas
Ethernet Speed	10/100 Mbps
Power Consumption	<4W
Exterior Material	ABS Plastic
Dimension / Weight (Without package)	118 x 85 x 30 mm (L*W*H) / 108g

SOFTWARE FEATURES

Operating System	OpenWrt v21.02
Network mode	Routing, AP, Extender
Ethernet Dialing Mode	DHCP, Static, PPPoE

BLE	<p>Toggle between active or passive scanning mode, set scan interval, and window interval period</p> <p>MAC, RSSI, and specified field filtering</p> <p>Supports MQTT/HTTP and allows setting the cloud server address, port number, encryption mode, report/response topic.</p>
Thread	<p>Create Thread network and modify network parameters.</p> <p>Joining an existing Thread network or importing devices into a network.</p> <p>Display network topology and node status.</p> <p>Display data from the Thread terminal development board, including temperature, humidity, light, and pressure. (Note: requires the Thread terminal development board provided by GL.iNet)</p>
Wireless Configuration	<p>Switching on and off wireless AP</p> <p>Modifying and hiding SSID</p> <p>Modifying encryption mode and password</p> <p>Channel modification</p> <p>Bandwidth modification</p> <p>Modifying transmission power</p> <p>Guest SSID</p>
Firewall Function	<p>Port forwarding, open port, DMZ</p>
System Function	<p>Restart</p> <p>Restore factory settings</p> <p>Change IP address range on LAN side</p> <p>Change time zone</p> <p>MAC address clone</p> <p>Encrypted DNS</p> <p>DDNS</p> <p>Cloud remote management</p> <p>Remote web management</p> <p>Remote SSH management</p> <p>Installing / uninstalling packages</p>

INTERFACE

Ethernet Port	1 x WAN, 1 x LAN
LED Indicator	Power / Thread / Network
Reset Button	Press (>3s, <8s) restores network settings to device initial state Long press (>=8s) restores factory settings
Power Port	Type-C, 5V/2A

CERTIFICATION

- CE
- RoHs
- CP65
- FCC
- WEEE

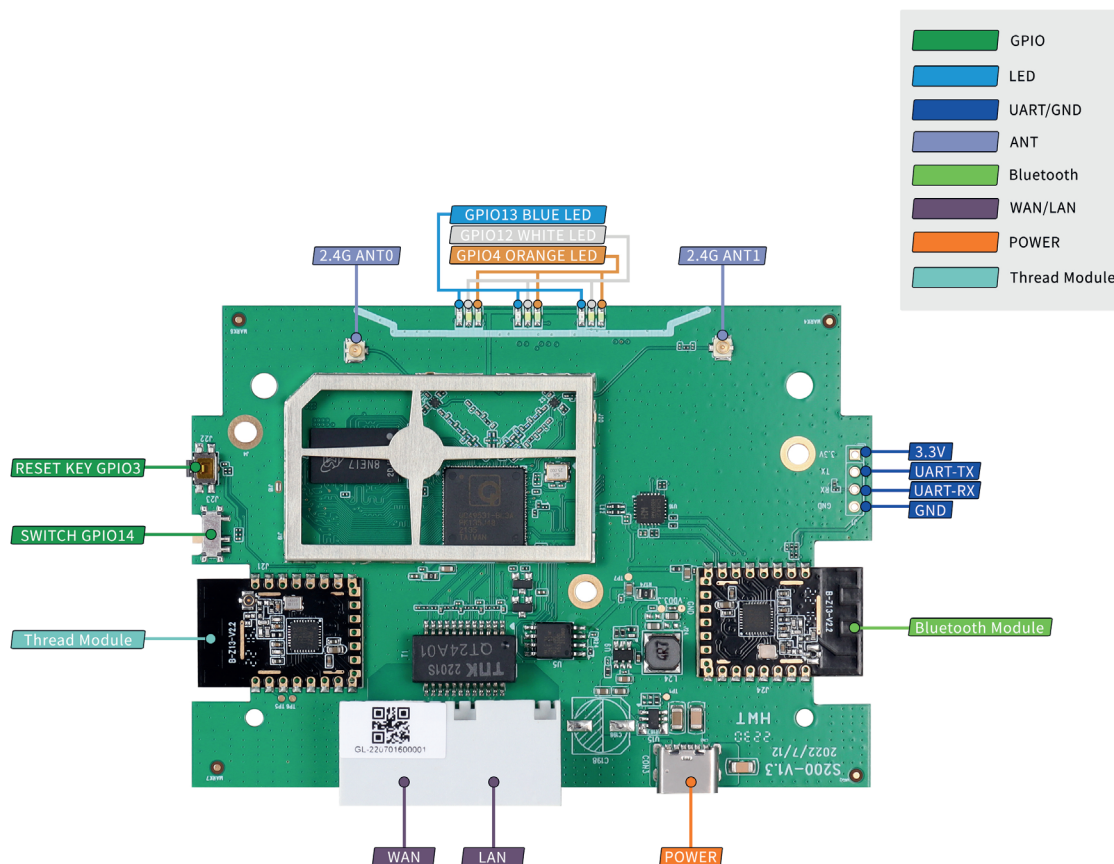
ENVIRONMENT

Operating Temperature	0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	5%~95%, non-condensing
Storage Humidity	5%~95%, non-condensing

PACKAGE LIST

	1 x GL-S200 Thread Border Router 1 x Power Adapter 1 x Ethernet Cable 1 x Warranty Card 1 x User Guide
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PINOUT



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