

Datasheet

Meet GL-S20

Thread Border Router



GL-S20 is a cost-effective IoT gateway designed to provide an essential & streamlined connectivity solution for IoT devices. It boasts high energy efficiency, high-availability, and reliable IoT connectivity in a compact design.

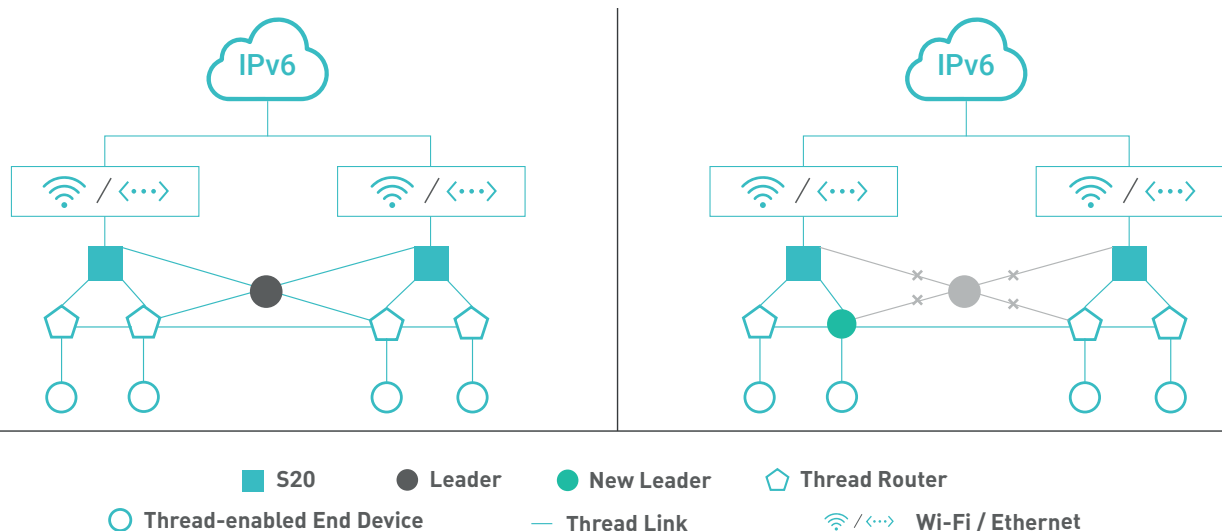
As the next-gen IoT gateway of the GL-S10, GL-S20 can provides Ethernet and Wi-Fi connectivity for BLE devices .It can also be utilized as a Thread Border Router/Thread Router.

GL-S20 supports customization in hardware and software, which can significantly expedite the development of your IoT system.

Highlights

Built on Thread

GL-S20 supports Thread to foster a seamless communication network among smart devices. This protocol ensures consistent performance by utilizing a mesh IoT network with self-healing capabilities, creating a reliable, low power, and low maintenance IoT network.





PoE (Optional)

GL-S20 supports PoE, simplifying the setup process and reducing cable clutter in various network environments.

Specifications

HARDWARE	
CPU	ESP32-S3 Dual-core, @240MHz
Memory / Storage	SRAM 512KB + PSRAM 8MB / NOR Flash 16MB
Wi-Fi	150Mbps (2.4GHz)
Thread / BLE Module	ESP32-H2-MINI-1
Antennas	2 x Internal Antenna
Protocol	IEEE 802.11 b/g/n
Ethernet Speed	10/100 Mbps
Power Consumption	Normal operating consumption: <3W PoE power supply: <7W
Dimension / Weight (Without package)	76 x 76 x 25mm (L*W*H) / 63g

SOFTWARE FEATURES

Operating System	FreeRTOS
Ethernet Dialing Mode	DHCP, Static
Thread	Create Thread network and modify network parameters. Joining an existing Thread network
System Function	Restart Restore factory settings Firmware Upgrade Device Log Backup and restore Change time zone

INTERFACE

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

CERTIFICATION

- CE
- FCC
- RoHs
- IC

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-S20 Thread Border Router
1 x Power Adapter
1 x Ethernet Cable
1 x Warranty Card
1 x User Guide
1 x Wall Mount Kit

CONTACT US

GL TECHNOLOGIES (HONG KONG) LIMITED

Unit 601, Building 5W, Hong Kong Science Park, Shatin, N.T., Hong Kong

WEBSITE www.gl-inet.com | **E-MAIL** sales@gl-inet.com