GL·iNet

OPENWRT ROUTERS
FOR ALL PURPOSES

GL Technologies (Hong Kong) Limited, Designed for MWC (Mobile World Congress) 2020 Barcelona

4G LTE Router and Gateway

GL-MIFI / GL-X750 / GL-X300B / GL-X1200 / GL-MIFIV4

SPECIFICATIONS		GL-MIFI	GL-X750 **Spitz**	GL-X300B	GL-X1200 **Amarok**	GL-MIFIV4
CPU		AR9331, @400MHz SoC	QCA9531, @650MHz SoC	QCA9531, @650MHz SoC	QCA9563, @775MHz SoC	QCA9531, @650MHz Soc
Memory		DDR2 64MB	DDR2 128MB	DDR2 128MB	DDR2 128MB	DDR2 128MB
Storage		FLASH 16MB	FLASH 16MB	FLASH 16MB	FLASH 16MB + 128MB	FLASH 16MB
Wireless Protocol		802.11 b/g/n	802.11 a/b/g/n/ac	802.11 b/g/n	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Frequency		2.4GHz	2.4GHz, 5GHz	2.4GHz	2.4GHz, 5GHz	2.4GHz, 5GHz
Wi-Fi Speed		150Mbps	300Mbps(2.4G) + 433Mbps(5G)	150Mbps / 300Mbps	300Mbps(2.4G) + 866Mbps(5G)	300Mbps(2.4G) + 433Mbps(5G)
TX Power		<18dBm	<20dBm	<20dBm	<23dBm	<20dBm
Ext. Antenna		Optional	2	2 / 3	7	2
Ethernet Port		1WAN, 1LAN	1WAN, 1LAN	1WAN, 1LAN	1WAN, 4LAN	1WAN, 1LAN
Ethernet Speed		10/100M	10/100M	10/100M	10/100/1000M	10/100M
USB Port		USB 2.0	USB 2.0	-	USB 2.0	USB 2.0
Power Input		5V/2A	12V/1.5A	12V/1A	48V/1A	12V/1.5A
Power Consumption		<3W	<6W	<5W	<15W	<6W
Working Temperature		0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	-20 ~ 55°C (-4 ~ 131°F)	-20 ~ 55°C (-4 ~ 131°F)[#]	0 ~ 40°C (32 ~ 104°F)
Dimension / Weight		105*72*27mm / 170g	115*74*22mm / 212g	104*95*28mm	240*145*40mm / 1.1kg	105*115*30mm
MicroSD Slot		✓	✓	—	✓	✓
Built-in Nand Flash		—	✓	✴	✓	✴
Built-in Battery		✴	—	—	—	✴
Built-in 4G Module		✓	✓	✓	✓	✓
Built-in IoT Module		—	✓	✴	—	✴

[#]It can work under -40~70°C (-40 ~ 158°F) but the performance may be affected.
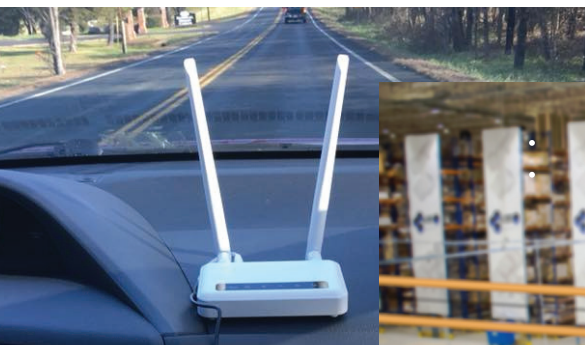
GL-MIFIV4
- Backup battery keeps your devices always on
- Exchangeable modules: BLE, Zigbee, Battery, PoE, RS485 and more

4G LTE Router and Gateway
- Facilitating secure IoT communications for ATMs, Point-of-Sales (POS) and more
- Interchangeable industrial 4G module tailored to your needs

IoT Gateway
GL-S10 / GL-S1300

Mesh Wi-Fi Coverage
GL-B1300 / GL-AP1300 / GL-B2200

	GL-S10	GL-S1300 convexa S	GL-B1300 convexa B	GL-AP1300	GL-B2200
CPU	ESP32-D0WD	IPQ4029 Quad-core ARM, @717MHz	IPQ4028 Quad-core ARM, @717MHz	IPQ4018, Quad-core ARM, @717MHz	IPQ4019, Quad-core ARM, @717MHz
Memory	SRAM 520KB	DDR3L 512MB	DDR3L 256MB	DDR3L 256MB	DDR3L 512MB
Flash	FLASH 4MB	FLASH 16MB + EMMC 8GB	FLASH 32MB	FLASH 4MB + 128MB	FLASH 4MB + EMMC 8GB
Wi-Fi	802.11 b/g/n	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Band	2.4GHz	2.4GHz, 5GHz	2.4GHz, 5GHz	2.4GHz, 5GHz	2.4GHz, 5GHz
Speed	150Mbps	400Mbps(2.4G) + 867Mbps(5G)	400Mbps(2.4G) + 867Mbps(5G)	400Mbps(2.4G) + 867Mbps(5G)	400Mbps(2.4G) + 2x867Mbps(5G)
Power	<17dBm	<20dBm	<20dBm	<20dBm	<20dBm
Antenna	1	0	0	Optional	0
Ports	1WAN	1WAN, 2LAN	1WAN, 2LAN	1WAN	1WAN, 1LAN
Ethernet	10/100M	10/100/1000M	10/100/1000M	10/100/1000M	10/100/1000M
USB	0	USB 3.0	USB 3.0	-	0
DC	5V/1A	12V/1.5A	12V/1.5A	12V/2A	5V/3A
Power consumption	<0.5W	<7W	<7W	<10W	<15W
Temperature	0 ~ 40°C (32 ~ 104°F)	-20 ~ 40°C (-4 ~ 104°F)	-20 ~ 40°C (-4 ~ 104°F)	-10 ~ 40°C (14 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)
Size	57*57*25mm / 86g	117*117*35mm / 240g	117*117*35mm / 212g	200*200*40mm / 692g	151*66.5*190.5mm
TF	—	—	—	—	—
NAND	—	—	—	✔	—
Battery	—	—	—	—	—
	—	—	—	✴	—
	✔	✔	—	✴	✴

Home Mesh and Business AP

- Most compatible mesh solution based on Qualcomm Wi-Fi SON solutions
- Easy set-up with mesh button and smartphone APP
- Covering your home with strong signal everywhere
- Cloud-based Wi-Fi coverage solution for businesses
- Backup 4G LTE and BLE/Zigbee module for option (GL-AP1300)
- High-performance Tri-band router with intelligent Mesh technology (GL-B2200)
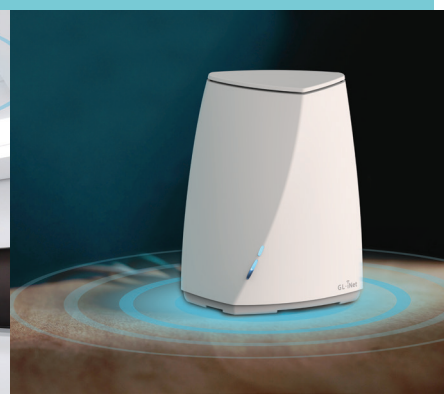
IoT Gateway (GL-S10, GL-S1300)

- Connecting BLE, Zigbee devices to the Internet
- Multiple Internet connection failover: Ethernet and Wi-Fi
- Connection to MQTT IoT platform, AWS, Azure
- MQTT Broker, database and dashboard built in the gateway (GL-S1300)

Edge Computing
GL-MV1000 / GL-MV1000W

Travel Router (2.4GHz)
GL-USB150 / microrouter-N300 / GL-MT300N-V2 / GL-AR300M Series

	BRUME | BRUME W GL-MV1000 | GL-MV1000W	microrouter GL-USB150	microrouter N300 microrouter-N300	MANGO GL-MT300N-V2	SHADOW GL-AR300M Series
CPU	Marvell 88F3720, Dual-Core @1.0GHz	AR9331, @400MHz SoC	MTK7628NN, @580MHz SoC	MTK7628NN, @580MHz SoC	QCA9531, @650MHz SoC
Memory	DDR4 1GB	DDR2 64MB	DDR2 128MB	DDR2 128MB	DDR2 128MB
Storage	FLASH 16MB + EMMC 8GB	FLASH 16MB	FLASH 16MB	FLASH 16MB	FLASH 16MB
Wifi	None | 802.11 n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Band	None | 2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz
Speed	None | 300Mbps	150Mbps	300Mbps	300Mbps	300Mbps
Power	None | <20dBm	<18dBm	<20dBm	<20dBm	<20dBm
Antenna	0 | 2	0	0	0	Optional
Ports	1WAN, 2LAN	USB to Ethernet	1WAN/LAN	1WAN, 1LAN	1WAN, 1LAN
Ethernet	10/100/1000M	10/100M	10/100M	10/100M	10/100M
USB	USB 2.0	0	0	USB 2.0	USB 2.0
Input	5V/2A	5V/1A	5V/1A	5V/1A	5V/1A
Consumption	<6W	<1W	<2.2W	<2.75W	<2W
Temperature	-20 ~ 40°C (-4 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)
Size	88*68*24mm / 105g | 100*68*24mm / 113g	82*24*11mm / 10g	51*51*18.5mm / 30g	58*58*25mm / 40g	58*58*25mm / 40g
TF	✔	—	—	—	—
NAND	—	—	—	—	✱
	—	—	—	—	—
	—	—	—	—	—
	—	—	—	✱	—

COMPREHENSIVE SOLUTION FOR OPENWRT BASED WIRELESS PRODUCTS

- Customizable OpenWrt system, with SDK and API
- Free one-page template for web control panel
- OpenVPN and WireGuard pre-installed
- Cloudflare DNS via TLS and DNS HTTPs Proxies installed

BRUME / GL-MV1000

- Max. 100Mbps OpenVPN speed and Max.280Mbps WireGuard, best for VPN applications
- OpenWrt and Ubuntu dual-system, best for development
- Supporting the installation of AdGuard to get rid of intrusive ads and online tracking
- Installing dockers to support unlimited applications

Travel Router

GL-AR750 / GL-AR750S / GL-E750 / GL-A1300

SPECIFICATIONS	CRETA **GL-AR750**	SLATE **GL-AR750S**	mudi **GL-E750**	**GL-A1300**
CPU	QCA9531, @650MHz SoC	QCA9563, @775MHz SoC	QCA9531, @650MHz SoC	IPQ4018, Quad-core ARM, @717MHz
Memory	DDR2 128MB	DDR2 128MB	DDR2 128MB	DDR2 256MB
Storage	FLASH 16MB	FLASH 16MB + 128MB	FLASH 16MB + 128MB	FLASH 4MB + 128MB
Wireless Protocol	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Frequency	2.4GHz, 5GHz	2.4GHz, 5GHz	2.4GHz, 5GHz	2.4GHz, 5GHz
Wi-Fi Speed	300Mbps(2.4G) + 433Mbps(5G)	300Mbps(2.4G) + 433Mbps(5G)	300Mbps(2.4G) + 433Mbps(5G)	400Mbps(2.4G) + 867Mbps(5G)
TX Power	<20dBm	<20dBm	<20dBm	<20dBm
Ext. Antenna	0	2	0	2
Ethernet Port	1WAN, 2LAN	1WAN, 2LAN	1WAN/LAN^	1WAN, 2LAN
Ethernet Speed	10/100M	10/100/1000M	10/100M	10/100/1000M
USB Port	USB 2.0	USB 2.0	USB 2.0	USB 3.0
Power Input	5V/2A	5V/2A	5V/2A	5V/3A
Power Consumption	<4W	<6W	<6W	<7W
Working Temperature	-20 ~ 40°C (-4 ~ 104°F)	-20 ~ 40°C (-4 ~ 104°F)	0 ~ 35°C (32 ~ 95°F)	-20 ~ 40°C (-4 ~ 104°F)
Dimension / Weight	88*68*24mm / 66g	100*68*24mm / 110g	145*77.5*23.5mm / 285g	105*82*30mm
MicroSD Slot	✔	✔	✔	✔
Built-in Nand Flash	—	✔	✔	✔
Built-in Battery	—	—	✔	—
Built-in 4G Module	—	—	✔	—
Built-in IoT Module	—	—	✱	—

^supported with the docking station

mudi / GL-E750

- Built-in battery
- OLED display
- Built-in 4G LTE modem
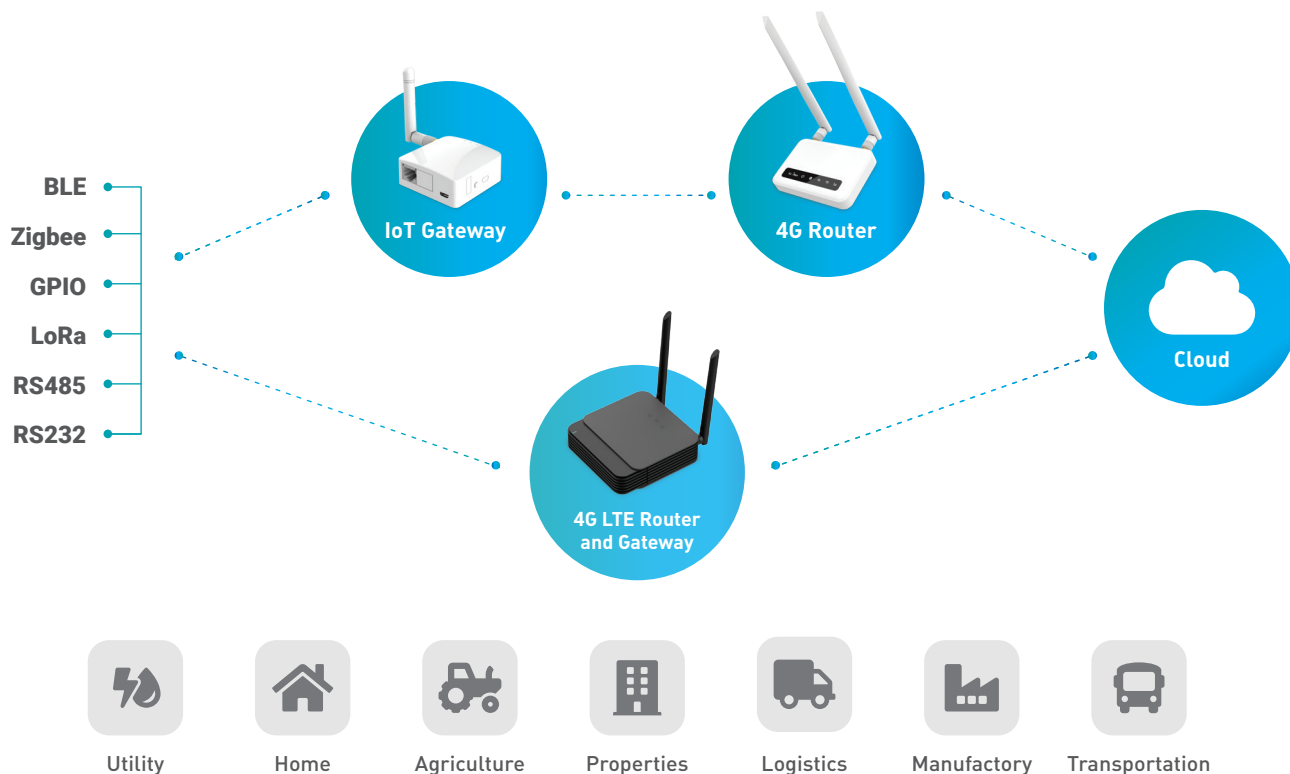- Working or playing securely anywhere and anytime

SLATE / GL-AR750S

- Dual-Band Wi-Fi
- Gigabit Ethernet ports
- Travel-Friendly

Enterprise IoT Networking Solution

Going Wireless Accelerated by GL.iNet End-to-End IoT Solution

Enterprises always need an IoT solution suitable for their own businesses. GL.iNet provides all the necessary IT infrastructure to implement customizable IoT solutions. GL.iNet focuses on IoT connectivity ranging from wired Ethernet/RS485/RS232 to wireless BLE/Zigbee/LoRa protocols. In the heart of the solution lie GL.iNet IoT gateways and GoodCloud MQTT platform.

BLE
Zigbee
GPIO
LoRa
RS485
RS232

IoT Gateway

4G Router

4G LTE Router and Gateway

Cloud

Utility   Home   Agriculture   Properties   Logistics   Manufactory   Transportation

We provide a comprehensive line of IoT gateways from the most affordable (GL-S10) to the most customizable (GL-MIFIV4). They connect your devices to our GoodCloud IoT platform, your private cloud or public cloud like AWS or Azure using MQTT and crypto algorithms.

GL-S10
The most affordable BLE gateway

Convexa-S / GL-S1300
Smart home gateway with Wi-Fi mesh, BLE and Zigbee

Spitz / GL-X750
4G LTE gateway with BLE or Zigbee

GL-MIFIV4
4G LTE gateway with battery and exchangeable modules

GoodCloud.xyz

- Realtime devices management in batches
- Data statistics and processing
- One cloud for multiple businesses

Gateway   Third-Party Cloud

Third-party cloud compatible like AWS IoT

One-Stop Wi-Fi Coverage Solution for SMEs

Traditional Wi-Fi coverage solutions are complicated and expensive. But luckily, GL.iNet provides one-stop Wi-Fi coverage solution for small and medium-sized enterprises (SMEs), which is handy and affordable. Our routers, wireless access points, GoodCloud platform and tools will simplify your deployment, management and operation of your enterprise Wi-Fi coverage without sophisticated IT training.

GL-AP1300
Wireless Access Point

GL-AP1300 is a powerful Wi-Fi router, access point and mesh nodes. It offers great Wi-Fi coverage range and outstanding data throughput. Each device supports 100+ wireless clients. GL-AP1300 has options to install a 4G LTE module with two external full-band antennas for network redundant in case the Ethernet fails. With built-in IoT modules, e.g., BLE, Zigbee and RTC, GL-AP1300 is a fully functional IoT gateway that connects your sensors to the cloud.

Amarok (GL-X1200) is an industrial grade 4G gateway for serious applications. It offers dual-SIM and dual-modem, allowing you to switch carriers on the go. Its hardware watchdog keeps the device alive in the field. With a standalone GPS, it offers precise location tracking for fleet applications.

Amarok / GL-X1200
Industrial 4G LTE Gateway

We provide GoodCloud with smartphone APP and comprehensive tools to simplify your deployment and management of Wi-Fi devices.

Deployment
Deploying easily using smartphone APP or our desktop batch setting tools

Configuration
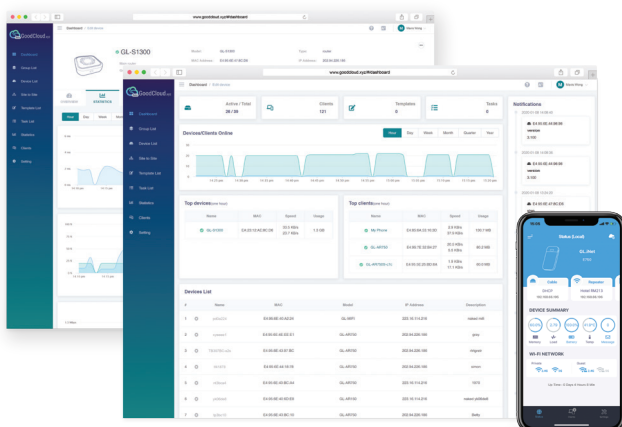Configuring your device in batches via cloud using pre-defined templates

Monitoring
Monitoring device outages and doing traffic analysis of your whole networks or single devices
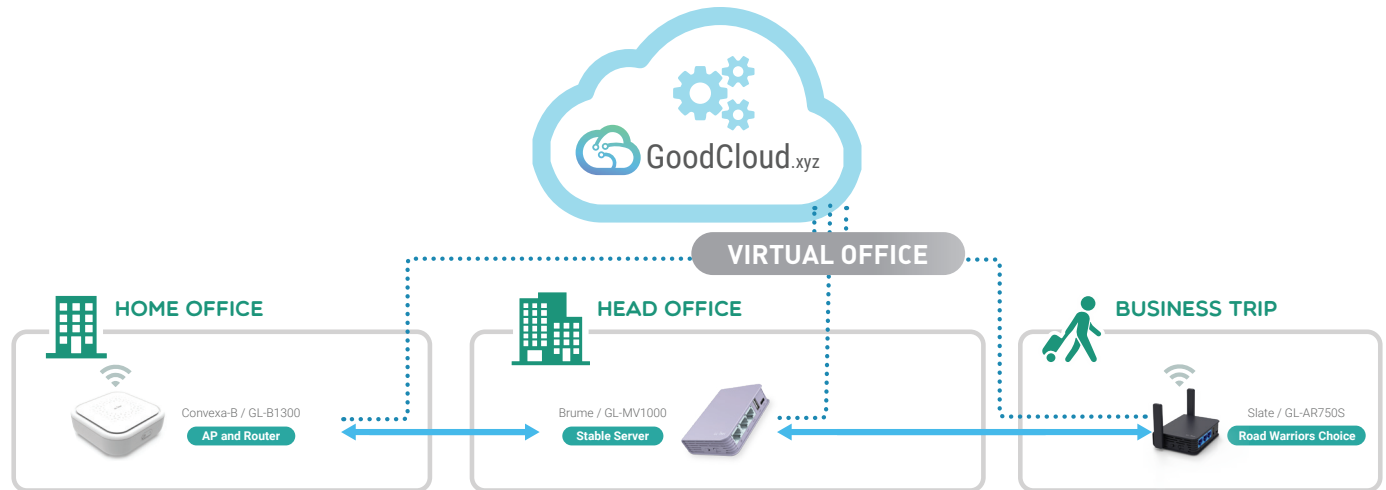
Operation
With multiple-layer user management (Admin, Support and Operator), guest Wi-Fi and captive portal, easily operating an enterprise Wi-Fi network

Site-to-Site: Multiple Office Collaboration

In order to increase the work efficiency and synergy among teams in different locations, small business practitioners try to work remotely or on-the-go.

GoodCloud S2S (Site-to-Site) is a simplified SDN (Software-Defined Network) for multiple office collaboration with minimum investment while keeping the same level of security, elasticity and automation.

GoodCloud.xyz

VIRTUAL OFFICE

HOME OFFICE
Convexa-B / GL-B1300
AP and Router

HEAD OFFICE
Brume / GL-MV1000
Stable Server

BUSINESS TRIP
Slate / GL-AR750S
Road Warriors Choice

Simple routers connect your multiple offices to one LAN network.

Convexa-B / GL-B1300
For home
with Wi-Fi coverage
190Mbps

Brume / GL-MV1000
For small offices
with high VPN performance
280Mbps

Slate / GL-AR750S
For business trip
with dual-band Wi-Fi
68Mbps

■ Stop   Tunnel IP Address Range

S2S

Main Node ⚙

Name: SZ-Office
Model: GL-B1300
LAN IP: 192.168.17.1
Status: Online
Transfer: 107.98 GB received,
           35.44 GB sent

Node 1 ⚙
Name: SZ-Factory
Model: GL-B1300
LAN IP: 192.168.16.1
Status: Online
Transfer: 35.39 GB received, 107.93 GB sent

Node 2 ⚙
Name: GL-VG
Model: GL-VG100
LAN IP: 192.168.1.1
Status: Online
Transfer: 55.48 MB received, 52.47 MB sent

Configure LAN IP and Access Control   ✕

LAN IP
192.168.23.1

Allow be Access for the Following Subnets ⓘ

Route	Action
192.168.23.0/24	■
172.30.55.0/24	

eg. 192.168.1.0/24   Add

Save & Apply

Tunnel IP Address Range   ✕

IP address range defines the scope of Site to Site network. Devices will acquire tunnel IP address from the IP address range. Current IP address range is: 172.30.55.0/24

Simple   Advanced

○ 10.148.18.0/24   ○ 10.148.19.0/24   ○ 10.148.20.0/24
○ 172.30.97.0/24   ○ 172.30.98.0/24   ○ 172.30.99.0/24
○ 192.168.191.0/24 ○ 192.168.192.0/24 ○ 192.168.193.0/24

Apply change will cause network go down a few minutes.

Cancel   Save   Save & Apply

• Deploying S2S network automatically using GoodCloud
• Managing subnet and resource access easily
• Self-healing during IP changes
• Monitoring outage and data traffic online