



SILBO-RG54

CELLULAR ROUTER

STAY CONNECTED



PROCESSOR

Mediatek MIPS 880MHz dual core Processor, 256MB DDR, 32MB Flash

Wi-Fi 5

2.4GHz, 300Mbps
5GHz, 867Mbps AP/Station, 5 dBi antennas

OPERATING SYSTEM

Linux

VPN

IPsec, OpenVPN, Custom SDWAN

DUAL LTE CONNECTIVITY

4G/3G/2G with Dual SIM, 3-9dBi antennas

ETHERNET

Five port 10/100/1000, 4 WAN, 1 LAN (Configurable)

ROUTER FEATURES

WebUI for easy configuration, Supports Multiwan with Failover, Data based SIM switching etc

Power

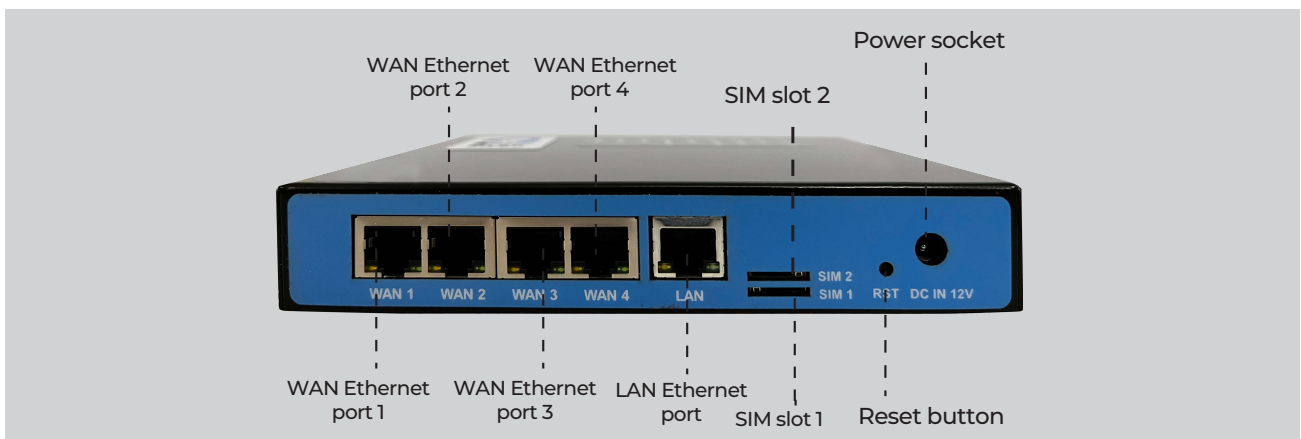
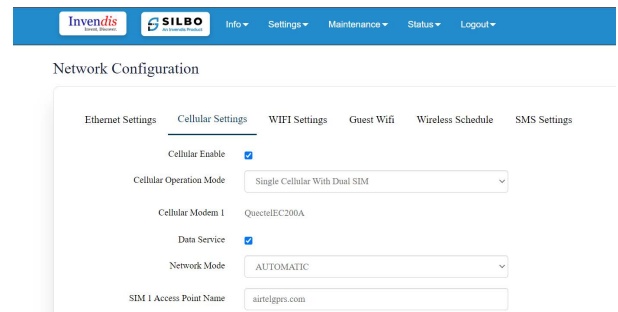
12V DC input/Gigabit PoE/Battery backup with Gauge

PRODUCT DESCRIPTION

SILBO-RG54 is a dual LTE, dual sim, industrial grade Multi-WAN router. It is extremely robust and is designed for use in 24 X 7 operations.

It is equipped with Two LTE Cellular modules, dual band Wi-Fi 5 and Five 10/100/1000 Ethernet ports. It supports Wi-Fi 5, 802.11 b/g/n/ac standards with a max speed of 1200Mbps.

SILBO-RG54 enables users to connect to 4G/LTE mobile connections with downlink speeds of up to 150Mbps and uplink speeds of upto 50Mbps providing fast internet experience.



FEATURES

Cellular

○ Cellular Modules	Two 4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps
○ Status	Signal strength (RSSI), SINR, RSRP, RSRQ
○ Band Management	Used band status display
○ APN	Configurable, Auto APN
○ Bridge	Direct connection (bridge) between mobile ISP and device on LAN
○ Passthrough	Router assigns its mobile WAN IP address to another device on LAN

WIRELESS

○ Wireless Mode	IEEE 802.11b/g/n/ac, Access Point (AP), Station (STA)
○ Wi-Fi Security	WPA2-PSK, WEP, WPA-EAP, WPA-PSK; AES-CCMP, TKIP
○ SSID	Four
○ Wi-Fi Users	Up to 64 simultaneous connections

ETHERNET

○ WAN	4 x WAN port 10/100/1000 Mbps (configurable), compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
○ LAN	1 x LAN port 10/100/1000 Mbps (configurable), compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX

NETWORK

○ Routing	Static routing
○ Network Protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, HTTP, HTTPS, FTP, PPP, DHCP
○ Connection Monitoring	Ping Reboot, Periodic Reboot
○ Firewall	Port forward, traffic rules, custom rules
○ DHCP	Static and dynamic IP allocation
○ Failover	MultiWAN, Cellular, Wired and WiFi WAN options, each of which can be used as backup, using automatic Failover

SECURITY

○ Firewall	Unlimited firewall configuration firewall rules can be enabled via WebUI
○ VLAN	Port and tag based VLAN separation
○ Mobile Quota Control	Set up custom data limits for the SIM card, automatic sim switching based on the data limit

VPN

○ OpenVPN	Multiple clients with encryption
○ IPsec	IKEv1, IKEv2, supports up to 2 x VPN IPsec tunnels (instances), with 5 encryption methods (DES, 3DES, AES128, AES192, AES256)
○ PPTP, L2TP	Client/Server services can run simultaneously
○ SDWAN	Customized SDWAN solution

MONITORING & MANAGEMENT

○ WEB UI	HTTP/HTTPS, status, configuration, FW update, diagnostics, system log, kernel log
○ SMS	SMS configuration, Reboot

SYSTEM CHARACTERISTICS

○ CPU	Mediatek, MIPS processor, 880 MHz
○ RAM	256 MB, DDR2
○ FLASH Storage	32MB, SPI Flash
○ Real Time Clock	RTC with builtin battery backup

FIRMWARE / CONFIGURATION

○ WEB UI	Update FW from file
○ Operating System	OpenWrt based Linux OS

FIRMWARE CUSTOMIZATION

○ Supported languages	Busybox shell, Lua, C, C++
○ Development Tools	SDK package with built environment provided (Optional)

POWER

○ Connector	DC Jack, RJ45 for PoE (Optional)
○ Input Voltage	12 VDC, Reverse polarity protection
○ Power Consumption	<15 W Max

BATTERY BACKUP (Optional)

○ Battery	2500mAH, removable battery
○ Gauge	Built in Battery Gauge to read battery SoC.

SILBO-RG54

PHYSICAL INTERFACES

(PORTS, LEDS, ANTENNAS, BUTTONS, SIM)

○ Ethernet	5 x RJ45 ports, 10/100/1000 Mbps
○ Status LEDs	6 x Cellular, 5 x Ethernet, 1 x Power, 2x Wi-Fi, 2x Battery
○ SIM	2 x Nano SIM
○ Antennas	2 x Cellular, 4 x Wi-Fi
○ Reset	Factory reset button
○ WPS	WPS button for easy wifi connection

PHYSICAL SPECIFICATION

○ Casing Material	Metal Enclosure
○ Dimensions (WxHxD)	165 x 30 x 125 mm
○ Weight	400g
○ Mounting Options	Wall mounting screw slots

OPERATING ENVIRONMENT

○ Operating Temperature	-10 C to 65 C
○ Operating Humidity	10 % to 90 % non-condensing
○ Ingress Protection Rating	IP30



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MNO/Tower CO



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