



# SILBO-RK65

5G NR CELLULAR ROUTER

**STAY CONNECTED**



## PROCESSOR

Mediatek MIPS 880MHz dual core Processor, 512MB DDR, 32MB Flash

## Wi-Fi 6

2.4GHz, 300Mbps 5GHz, 1800Mbps AP/Station, 5 dBi antennas

## OPERATING SYSTEM

Linux

## VPN

IPSec, OpenVPN, Custom SDWAN

## DUAL 5G NR AND LTE CONNECTIVITY

5G NR with Dual SIM and LTE module 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

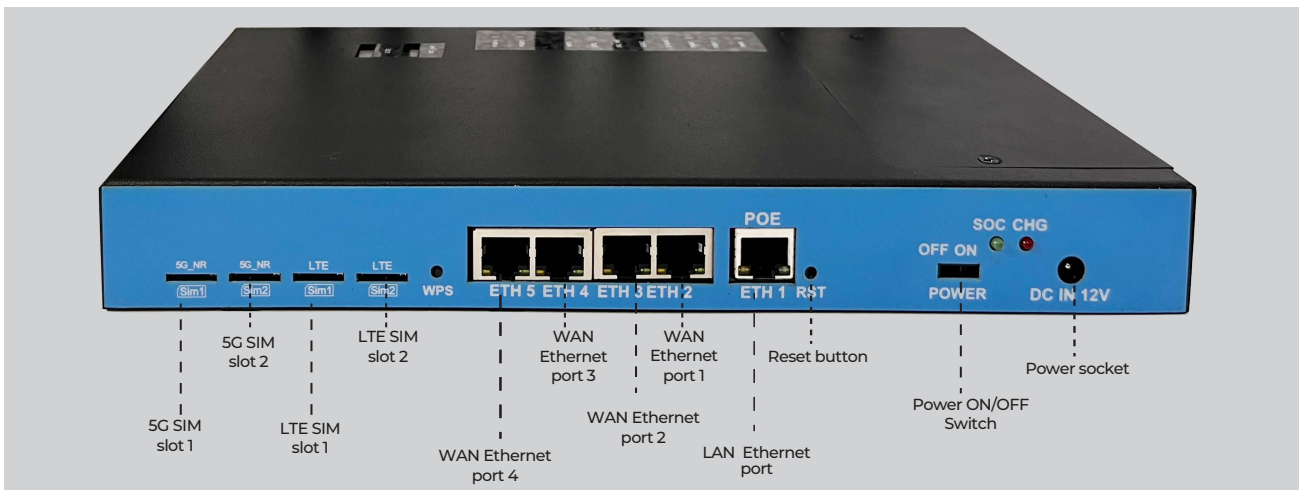
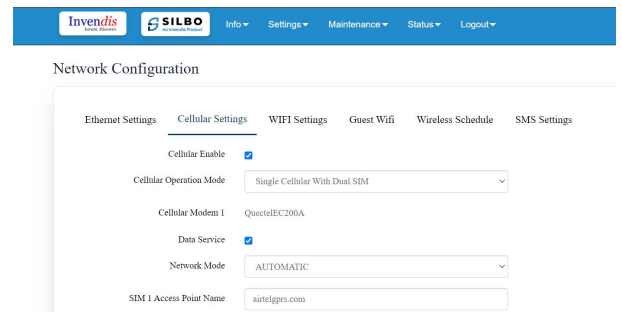
12V DC input/Gigabit PoE/Battery backup with Gauge

## PRODUCT DESCRIPTION

SILBO-RK65 is a dual 5G NR and CAT4/6/12 industrial grade cellular Multi-WAN router. It is extremely robust and is designed for use in 24 X 7 operations.

It is equipped with Two Cellular modules (5G NR and CAT4/6/CAT12 LTE) with 4 SIMs, dual band Wi-Fi 6 and Five 10/100/1000 Ethernet ports. It supports Wi-Fi 6, 802.11 b/g/n/ac/ax standards with a max speed of 2100Mbps.

SILBO-RK65 enables users to connect to 5G NR mobile connections with downlink speeds of up to 4.67Gbps and uplink speeds of upto 2.5Gbps providing super fast internet experience.



## FEATURES

### Cellular

- 5G NR Cellular Module Sub 6GHz 5G NR –4.67Gbps DL, 200MHz aggregated BW, 4x4 MIMO 5Gbps UL, 200MH aggregated BW, 2x2 MIMO
- LTE Cellular Module 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/ax, Access Point (AP), Station (STA)
- Wi-Fi Security WPA2-PSK, WEP, WPA-EAP, WPA-PSK; AES-CCMP, TKIP, WPA3
- SSID 8
- 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	512 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-RK65

## PHYSICAL INTERFACES (PORTS, LEDS, ANTENNAS, BUTTONS, SIM)

○ Ethernet	5 x RJ45 ports, 10/100/1000 Mbps
○ Status LEDs	12 x Cellular, 5 x Ethernet, 1 x Power, 2x Wi-Fi, 2x Battery
○ SIM	4 x Nano SIM
○ Antennas	6 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)	215 x 30 x 145 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



118,000+  
Telecom Towers



700+  
Solar Sites



15+Global  
MNO/Tower CO



30,000+  
Routers



26+  
Countries



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Connected Assets



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