SILBO-RB44
CELLULAR ROUTER

STAY CONNECTED

Invendis — Invent, Discover.

PROCESSOR
Mediatek MIPS 580MHz Process
128MB DDR, 16MB Flash

Wi-Fi
2.4GHz, 300Mbps AP/Station,
External 5dBi antennas

OPERATING SYSTEM
Linux

NMS/VPN
OpenVPN, IPSec, etc. Custom
network management service
for remote management and
configuration

LTE CONNECTIVITY
4G/3G/2G with Dual SIM,
External antennas (3-9dBi)

ETHERNET
Five port 10/100
(Configurable as LAN/WAN)

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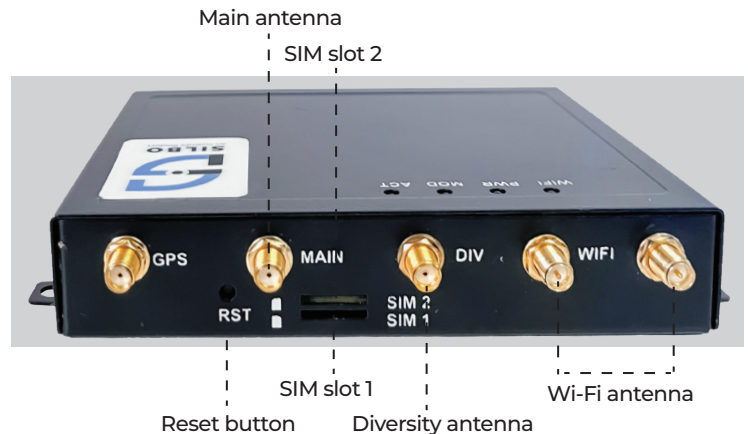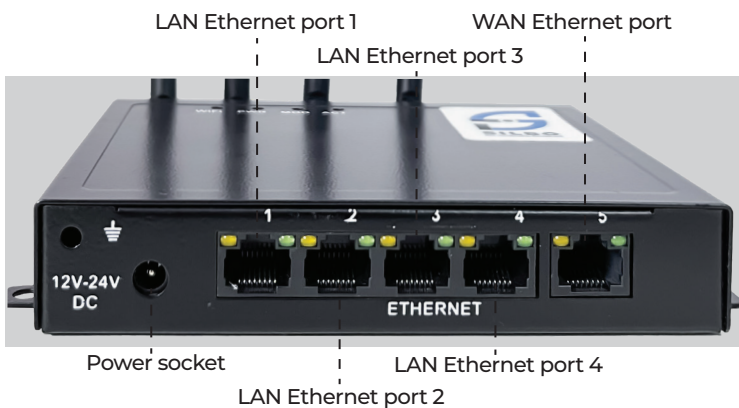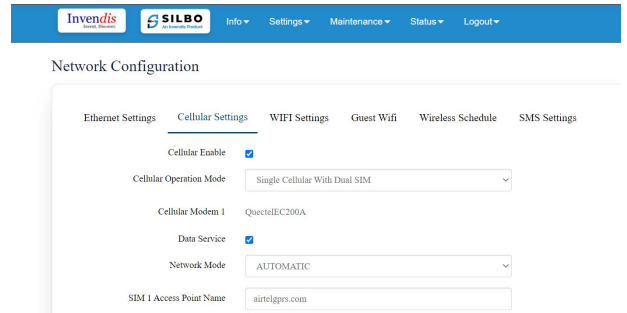Data based SIM switching etc.

POWER
10-30V DC Input

PRODUCT DESCRIPTION

SILBO-RB44 is a 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 LTE Cellular module, Wi-Fi 4 and Five 10/100 Ethernet ports. It supports Wi-Fi 4, 802.11 b/g/n standards with a max speed of 300Mbps on 2.4 GHz.

SILBO-RB44 enables users to connect to 4G/LTE mobile connection with downlink speeds of up to 150Mbps and uplink speeds of upto 50Mbps providing fast internet experience.

LAN Ethernet port 1   WAN Ethernet port
LAN Ethernet port 3

Power socket   LAN Ethernet port 4
LAN Ethernet port 2

Main antenna
SIM slot 2

Reset button   Diversity antenna   Wi-Fi antenna
SIM slot 1

FEATURES

Cellular

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, Access Point (AP), Station (STA)
Wi-Fi Security	WPA2-PSK, WEP, WPA-EAP, WPA-PSK; AES-CCMP, TKIP
SSID	Two (Single and Guest)
Wi-Fi Users	Up to 32 simultaneous connections

ETHERNET

WAN	1 x WAN port (can be configured to LAN) 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
LAN	4 x LAN port (can be configured to WAN) , 10/100 Mbps, 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, DNS, HTTP, HTTPS, FTP, PPP, UPnP, SSH, DHCP, SNMP, MQTT
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

Authentication	Pre-shared key, digital certificates, X.509 certificates
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

SILBO-RB44

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

MONITORING & MANAGEMENT

WEB UI	HTTP/HTTPS, status, configuration, FW update, diagnostics, system log, kernel log
FOTA	Firmware update from sever,
SSH	SSH (v1, v2)
SMS	SMS configuration, Reboot
RMS	Invendis Remote Management System (RMS)

SYSTEM CHARACTERISTICS

CPU	Mediatek, MIPS processor, 580 MHz,
RAM	128 MB, DDR2
FLASH Storage	16 MB, SPI Flash
Real Time Clock	RTC with builtin battery backup

FIRMWARE / CONFIGURATION

WEB UI	Update FW from file, check FW on server, settings import/export
FOTA	Update FW/configuration from server
RMS	Update select configuration for multiple devices
Keep Settings	Update FW without losing current configuration

FIRMWARE CUSTOMIZATION

Operating System	OpenWrt based Linux OS
Supported languages	Busybox shell, Lua, C, C++
Development Tools	SDK package with built environment provided (Optional)

POWER

Connector	DC Jack
Input Voltage Range	10–30 VDC, Reverse polarity protection
Power Consumption	< 5 W Max

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

Ethernet	5 x RJ45 ports, 10/100 Mbps
Status LEDs	2 x Cellular , 5 x Ethernet, 1 x Power, 1x WiFi/System
SIM	2 x Nano SIM
Antennas	2 x Cellular, 2 x Wi-Fi
Reset	Factory reset button

PHYSICAL SPECIFICATION

Casing Material	Metal enclosure
Dimensions (WxHxD)	160 x 28 x 120 mm
Weight	300g
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

500,000+
Connected Assets

20,000+
Enterprise Users

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