



## RK55

**STAY  CONNECTED**

<p><b>PROCESSOR</b> MediaTek MT7621 512MB DDR RAM, 32MB Flash</p>	<p><b>CELLULAR</b> Dual SIM 5G/4G/3G, External 5dB antennas</p>	<p><b>Wi-Fi</b> Dual Band, 300Mbps AP/Station, External 5dB antennas</p>
<p><b>ETHERNET</b> 1x WAN 10/100/1000 4x LAN 10/100/1000</p>	<p><b>POWER</b> 12V DC Input</p>	<p><b>OPERATING SYSTEM</b> Open-WRT Linux</p>
<p><b>NMS</b> Easy remote management and monitoring for large-scale deployment.</p>		



## HARDWARE SPECIFICATION

CPU	MediaTek MT7621
FLASH	32MB
RAM	512MB
WAN	1x 10/100/1000
LAN	4x 10/100/1000
Cellular Modem	Single 5G Modem
SIM	Up to 2 Nano SIM
Button	Pinhole Reset Button, WPS
Wi-Fi	802.11b/g/n/ac
Antenna	Cellular: Up to 4 SMA Connector, Wi-Fi: Up to 4 SMA connector
Enclosure	Metal Enclosure
Mounting	Din-rail mount (As an optional accessory)
Design	Fanless
Dimensions	209 x 30 x 154 mm (W x H x D)
Weight	950 gm
Status LED	Mode, Connectivity, Wi-Fi, Power, SIM
Input Power	12 Vdc

## Operational & Environmental

Storage Temperature	-20 ~ 65°C
Operating Temperature	-20 ~ 60°C
Humidity	10 ~ 90% (non-condensing)
Ingress Protection Rating	IP30



## SOFTWARE FEATURES

### Cellular

Cellular Module	5G SA Sub-6 up 2Gbps, NSA Sub-6 up to 2.2 Gbps, 4G (LTE) up to 600Mbps, 3G - up to 42 Mbps
Status	Single strength (RSSI), SINR, RSRP, RSRQ, SIM Status
Band Management	Auto/User configurable & Operator Lock
APN	Configurable, Auto APN (Planned)
Modem configuration mode	Single SIM, Dual SIM
SIM switching	Signal strength, ICMP echo, Data limit based
Bridge	Direct connection (bridge) between mobile ISP and device on LAN (Planned)
PDP Type	IPv4, IPv6, Dual stack
Passthrough	The router assigns its mobile WAN IP address to another device on LAN (Planned)

### Wi-Fi

Wi-Fi Mode	Access Point, Station, Guest Wi-Fi
Encryption	TKIP, AES
Technology	802.11 b/g/n/ac with 20 MHz, 40 MHz
Authentication	WPA (PSK), WPA2 (PSK)
TX Power	Configurable
Wi-Fi Scheduler	Scheduled ON/OFF (Planned)

### Firewall & Networking

Routing	Static routing
Network Protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, PPP, SSH, DHCP, SNMP (Planned), TR069 (Planned)
Connecting Monitoring	Ping Reboot, Scheduled Periodic Reboot
Firewall features	Port forward, traffic rules, SNAT, Zone- Zone traffic control
DHCP	Static and Dynamic



Failover	Configurable Failover option for Cellular WAN, Wired and Wi-Fi WAN (Planned)
Authentication	Pre-shared key, X.509 certificates
VLAN	Port based VLAN, Tag based VLAN 802.1ad
Other	MAC binding, black/whitelisting
VPN	Open VPN, IPsec, GRE, L2TP, PPTP, GRE over IPsec
Open VPN	TUN/TAP (Planned)
IPsec	IKEv1, IKEv2, supports up to 4xVPN IPsec client. Encryption: 3DES, AES128, AES192, AES256
PPTP, L2TP	WAN with PPTP/L2TP configuration for secure broadband connection (Planned)
<b>Remote Management</b>	
NMS	Remote monitoring of SILBO Networking products
NMS VPN	Remote access of SILBO and non-SILBO Networking products using NMS VPN
<b>Operating System</b>	
Operating System	Open-WRT based Linux OS
Supported Languages	Shell scripting, C, C++, Python (Optional)
Development tools	SDK package with built environment provided (Optional)
<b>Standard Packaging</b>	Product 4x Cellular Rubber Duck Antennas 4x Wi-Fi Rubber Duck Antennas Power cable 0.5-meter Ethernet cable

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