



SLK-R640-5G

Industrial Outdoor

5G CPE Router

Data Sheet

Product Introduction



Introduction:

SLK-R640-5G is an Outdoor wireless 5G CPE product with high-performance 4-core CPU, high power WiFi6, and integration of cellular 5G network. Supports 1x 1000M Ethernet port, which can be configured as LAN/WAN ports, 2X2 MIMO 2.4g /5.8G WIFI6, and you can choose DC48V POE power in or DC10-55V Power in version. It also supports wide work temperature, wide voltage input and EMC test with electromagnetic compatibility.

Has been widely used in the Internet of things industry chain of M2M industry, such as self-service terminals, smart grid, smart transportation, smart home, financial, mobile POS terminals, supply chain automation, industrial automation, intelligent buildings, fire control, public security, environmental protection, meteorology, digital medical treatment, telemetry, agriculture, forestry, water, coal, petrochemical and other fields.

Features:

- ✓ Qualcomm Quad-core CPU/ 1.8GHz,8Gb DDR3,4GB eMMC
- ✓ 802.11ac mode: PHY rate: 866.7 Mbps (5 GHz) and 400 Mbps (2.4 GHz)
or proprietary PHY rate: 1083 Mbps (5 GHz) and 500 Mbps (2.4 GHz)
- ✓ 802.11ax mode: PHY rate: 1201 Mbps (5 GHz) and 573.5 Mbps (2.4 GHz)
- ✓ Wi-Fi supported IEEE802.11ac, IEEE802.11ax
- ✓ Supported 5G SA, NSA network
- ✓ 4x5G antenna interface (N-J connector)
- ✓ 2xWIFI antenna interface (N- connector)
- ✓ **Standalone Multi-GNSS Engine(Optional)**
- ✓ 1 x 10/100/1000M Ethernet LAN /WAN Ports (RJ45 Connector)
- ✓ 1xNANO SIM card Slot for 5G network
- ✓ DC10-55V Power In or 48V POE Power in
- ✓ Protection class IP67

Details:
Hardware :

CPU	Qualcomm Quad-core CPU/ 1.8GHZ
RAM	8Gb
eMMC	4GB
OS	LINUX /OpenWRT

Cellular Interface:
Chipset QualcommX62, 3GPP Release 16

Band Supported SLK-R640-5G-A1(AE) (Europe Asia, Australia) A1=one 5G Module A2=two 5G Modules	5G Sub-6G SA	N1/3/5/7/8/20/28/38/40/41/75/76/77/78
	5G Sub-6G NSA	N1/3/5/7/8/20/28/38/40/41/77/78
	LTE FDD	Band 1/3/5/7/8/20/28/32
	LTE TDD	Band 38/40/41/42/43/46(LAA)
	WCDMA	Band 1/5/8
Band Supported SLK-R640-5G-A1(NA) (North American) A1=one 5G Module A2=two 5G Modules	5G Sub-6G SA	N2/5/12/14/25/30/41/48/66/70/71/77
	5G Sub-6G NSA	N2/5/12/25/30/41/66/71/77
	LTE FDD	Band 2/4/5/12/13/29/30/66/71
	LTE TDD	Band 41/48/46(LAA)
Band Supported SLK-R640-5G-A1(GL) (Global Version) A1=one 5G Module A2=two 5G Modules	Sub-6G	N1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79
	LTE-FDD	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 66/ 71
	LTE-TDD	B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48
	LAA	B46
	WCDMA	B1/ 2/ 4/ 5/ 8/ 19
Bandwidth	NR SA: 2.47Gbps(DL) / 900Mbps(UL) NR ENDC: 3.47Gbps(DL) / 660Mbps(UL) LTE: 1.6Gbps(DL) / 211Mbps(UL) WCDMA: 42Mbps(DL) / 5.76Mbps(UL) Note: The actual network speed and bandwidth depends on the local carrier network and signal.	

Standalone GPS

Multi-GNSS engine	GPS, GLONASS, BeiDou, Galileo and QZSS
LNA	Built-in LNA for better sensitivity
Supported Bands	GPS L1 C/A: 1575.42 MHz Galileo E1: 1575.42 MHz QZSS L1: 1575.42 MHz GLONASS L1: 1602.5625 MHz BeiDou B1: 1561.098 MHz
Channel	Tracking: 48

	Fast Acquisition: 2
Horizontal Position Accuracy	Autonomous: < 1.5 m CEP
Velocity Accuracy	Without Aid: < 0.1 m/s
Acceleration Accuracy	Without Aid: < 0.1 m/s ²
TTFF (without AGNSS)	Cold Start: < 32 s Warm Start: < 25 s Hot Start: < 2 s
Sensitivity	Acquisition: -145 dBm Tracking: -162 dBm Reacquisition: -152 dBm
Protocols	NMEA 0183

WiFi Performance:

WiFi supported	
Wireless	High power WiFi performance On-board 2x2 2.4GHz 802.11b/g/n, max 21dBm per chain @-35dB DEVM On-board 2x2 5GHz 802.11a/n/ac/ax/max 20dBm per chain @-40dB DEVM
Frequency	2.412GHz to 2.472GHz and 5.150GHz to 5.825GHz, simultaneous dual band
WiFi Rate	2x2 MU-MIMO On-board WiFi 2.4GHz radio, up to 574Mbps physical data rate, TCP data up to 400Mbps
	2x2 MU-MIMO On-board WiFi 5GHz radio, up to 1201Mbps physical data rate, TCP data rate up to 800Mbps
Modulation Techniques	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g: OFDM (BPSK / QPSK / 16-QAM / 64-QAM) 802.11ac/n: OFDM (BPSK / QPSK / 16-QAM / 64-QAM / 256-QAM) 802.11ax: OFDM 1024QAM

Router characteristics:

Router characteristics	
Firewall	Network Address Translation (NAT)
	State full Packet Inspection (SPI)
Media Access Control	CSMA/CA with ACK
WiFi	AP, Client
VPN protocol	PPTP,L2TP ,OpenVPN Client, IPsec, Wireguard
DHCP	Build-in DHCP (Dynamic Host Configuration Protocol)
Others protocol	Supported PPP,PPPOE,DDNS,ICMP,VRRP etc.
Device Manager	SNMP V1,V2,V3 TR069

Interface:

LAN Port	1x 10/100/1000M LAN/WAN port (RJ45 Connector) POE Ethernet, Supports 48V POE input(optional) POE Version
Reset	1x Reset
Antennas	2x N-J WIFI Antennas interface (50Ω)

	4x N-J 5G Antennas interface (50Ω)
LED	Power-SYS-4G-5G-Signal strength - LEDs
SIM Card Slot	1x NANO-SIM card slot, supports e-SIM card
Power In	Supports DC12-55V, DC Power Version,5.5*2.1 DC Connector
Power Consumption	24W(Max)

Physical property:

Operating Temperature	Storage Temperature: (-40°C to 85°C)
	Operating Temperature: (-40°C to 75°C)
Relative Humidity	95%
Size	L*S*H: 210*210*68 MM
Weight	Net weight:1.5KG
	Packing weight: 3KG
Certification	CCC, CE, FCC,RHOS

Others:

Warranty	2 years
-----------------	---------

Order information:

Model	SLK-R640-5G-A1(AE) 5G CPE
SLK-R640-5G-A1(AE)	4x N-J Fiber Glass 5G antennas,2x N-J Fiber Glass WIFI antennas 1x 12V/2A Power adapter, 1x RJ45 Cable,1.5 meters long,1x AC to POE Power adapter
SLK-R640-5G-A1(NA)	SLK-R640-5G-A1(NA) 5G CPE 4x N-J Fiber Glass 5G antennas,2x N-J Fiber Glass WIFI antennas 1x 12V/2A Power adapter, 1x RJ45 Cable,1.5 meters long,1x AC to POE Power adapter
SLK-R640-5G-A1(GL)	SLK-R640-5G-A1(GL) 5G CPE 4x N-J Fiber Glass 5G antennas,2x N-J Fiber Glass WIFI antennas 1x 12V/2A Power adapter, 1x RJ45 Cable,1.5 meters long,1x AC to POE Power adapter
A1=one 5G module A2=two 5G modules	

Parts:

Thank you for your support of SERIALLINK products.

If you have any questions, please email: info@seriallink.net or www.seriallink.net