



SLK-R680-5G-8TH

Industrial 5G CPE

Data Sheet

Version: V1.0

Date: 22/11/2022

Product Introduction



Introduction:

SLK-R680-5G-8TH is a multi-functional wireless 5G CPE product with high-performance 4-core CPU, high power WiFi6, and integration of cellular 5G network. Supports 8x 1000M Ethernet ports, which can be configured as LAN/WAN ports, you can choose DC48V POE power out version, 2X2 MIMO 2.4G /5.8G WIFI6, etc. It also adopts wide 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/1.2GHz, 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 supports supported IEEE802.11ac, IEEE802.11ax
- ✓ 8 x 10/100/1000M Ethernet LAN /WAN Ports (RJ45 Connector)
- ✓ 1x 1000M SFP Optical Fiber Interface (optional)
- ✓ 2x NANO SIM card for 5G network
- ✓ 48V POE output (optional)
- ✓ DIN35MM Rail and Wall Mount Installation

Details:
Hardware :

CPU	Qualcomm Quad-core CPU/1.2GHZ
RAM	8Gb
eMMC	4GB
OS	LINUX /OpenWRT

Cellular Interface:
Chipset QualcommX62, 3GPP Release 16

Band Supported SLK-R680-5G-8TH AE (Europe Asia, Australia)	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
	GNSS	GPS/GLONASS/Galileo/BDS/QZSS
Band Supported SLK-R680-5G-8TH- NA (North American)	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)
	GNSS	GPS/GLONASS/Galileo/BDS/QZSS
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.	

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, SERIALLINK VPN Client
DHCP	Build-in DHCP (Dynamic Host Configuration Protocol)
Others protocol	Supported PPP,PPOE,DDNS,ICMP,VRRP etc

Interface:

LAN/WAN Ports	8 x 10/100/1000M LAN/WAN ports(RJ45 Connector)
Optical Fiber Interface	1x 1000M SFP Interface(optional), When SFP working , Port4,5,6,7 disabled
Reset	1x Reset(Factory Data Reset)
Antennas	2x SMA WIFI Antennas interface (50Ω) 4x SMA 5G Antennas interface (50Ω)
LED	Power-SYS-4G-5G-Signal strength - LEDs
SIM Card Slot	Dual-SIM card slot
POE Ethernet	Supported 8 ports 48V POE output(optional) 802.3AF/AT standard

Power interface :

Power	
Default power	DC 12V/2A power adapter (US,EU etc stander option) POE version supply a 52V/3A power adapter
Input VDC	12~55VDC
Power Consumption	24W (Max) without POE

Physical property:

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: 144mm x94mm x 50mm
Weight	Net weight:556g
	Packing weight: 987kg
Certification	CCC,CE,FCC,RHOS

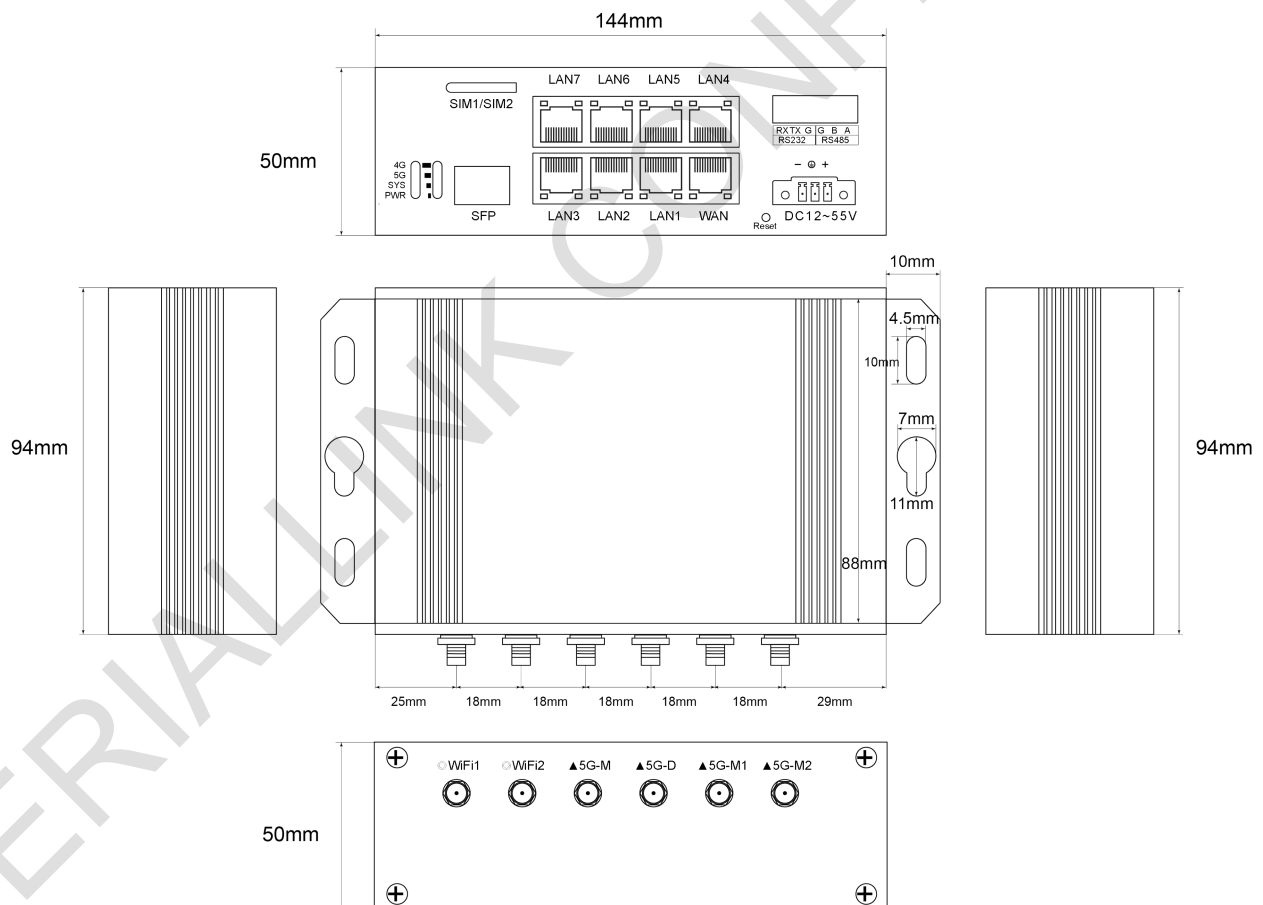
Others:

Warranty	2 years
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Order information:

Model	SLK-R680-5G-8TH-AE 5G CPE ,2xWIFI antennas,4X 5G Antenans,1x 24V/1A Power adapter , 1x RJ45 Cable
SLK-R680-5G-8TH-AE	
SLK-R680-5G-8TH-NA	SSLK-R680-5G-8TH-NA 5G CPE ,2xWIFI antennas, 4X 5G Antenans,1x24V/1A Power adapter , 1x RJ45 Cable
SLK-R680-5G-8TH-AE(POE)	SLK-R680-5G-8TH-AE(POE) 5G CPE ,2xWIFI antennas,4X 5G Antenans,1x 52V/1.5A Power adapter , 1x RJ45 Cable
SLK-R680-5G-8TH-NA(POE)	SLK-R680-5G-8TH-NA(POE) 5G CPE ,2xWIFI antennas,4X 5G Antenans,1x 52V/1.5A Power adapter , 1x RJ45 Cable
If you need an optical module, you can select a standard SFP optical module.	

Product dimension drawing
unit: mm



Thank you for your support of SERIALLINK products.

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