



# Industrial Wifi6 Router Data Sheet

## Product Introduction



### Introduction :

A multi-functional wireless WiFi6 Router with high-performance 4-core CPU, high power WiFi6, Supports 4x 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, Supported AP, Client Work mode 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: 866.7Mbps (5 GHz) and 400 Mbps (2.4 GHz)  
or proprietary PHY rate: 1083Mbps (5 GHz) and 500 Mbps (2.4 GHz)
- ✓ 802.11ax mode: PHY rate: 1201Mbps (5 GHz) and 573.5 Mbps (2.4 GHz)
- ✓ Wi-Fi supported IEEE802.11ac, IEEE802.11ax
- ✓ 4 x 10/100/1000M Ethernet LAN/WAN Ports (RJ45 Connector)
- ✓ 1x1000M SFP Optical Fiber Interface
- ✓ 48V POE output (optional)
- ✓ DIN35MM Rail Install

## Details

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<b>Hardware</b>	
CPU	Qualcomm Quad-core CPU/ 1.2GHz
RAM	8Gb
eMMC	4GB
OS	LINUX/OpenWRT

## WiFi Performance

<b>WiFi supported</b>	
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) 802.11a/n: OFDM (BPSK / QPSK / 16-QAM / 64-QAM / 256-QAM) 802.11ax : OFDM 1024QAM

## Router characteristics

<b>Router characteristics</b>	
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, SERIAL LINK VPN Client
DHCP	Build-in DHCP (Dynamic Host Configuration Protocol)
Others protocol	Supported PPP, PPOE, DDNS, ICMP, VRRP etc

## Interface

<b>Interface</b>	
LAN/WAN Ports	4 x 10/100/1000MLAN/WAN ports (RJ45 Connector)
Optical Fiber Interface	1x1000MSFP Interface
Reset	1xReset
LED	Power-SYS-2.4G WiFi-5.8G WiFi- LEDs

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POE Ethernet out	Supported 48V POE output (optional)
WiFi Interface	2x 2.4G & 5.8G SMA WiFi Antenna interface

## Power interface

<b>Power</b>	
Default power	DC 12V/2A power adapter (US, EU etc stander option)
Input VDC	12~55VDC
Power Consumption	18W (Max)

## Physical property

<b>Physical property :</b>	
Operating Temperature	Storage Temperature: (-40°C to 85°C)
	Operating Temperature: (-40°C to 75°C)
Relative Humidity	99%
Size	L*W*H: 144mm x 94mm x 50mm
Weight	Net weight: 556g
	Packing weight: 987g
Certification	CCC, CE, FCC, RHOS

## Others

Warranty	2 years
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## Order information

Model	SLK-R680-WiFi Router, 2x WiFi antennas, 1x 12V/2A Power adapter, 1x RJ45 Cable
SLK-R680-WIFI	
SLK-R680-WIFI(POE)	SLK-R680-WIFI(POE) Router, 2x WiFi antennas, 1x 52V/1.5A Power adapter, 1x RJ45 Cable

## Product size drawing

Unit: mm

