

Industrial 4G Wireless



Introduction :

A high-speed 4G terminal based on high-performance dual-core CPU communication processor and integrated 4G NR/LTE-FDD/LTE-TDD/HSPA+ cellular modem. It supports NA/SA networking mode and is suitable for various terminals. Provide high-speed 4G connection. Abundant physical interfaces: 2 10/100/1000M Ethernet ports, 2 RS232/485 serial ports, 4 digital input DI ports, 2 digital output DO ports, 1 self-elastic NANO SIM card slot and 1 TF card slot, wide voltage input supports 9-28V. The small size design and the use of aluminum shell make it have good heat dissipation. It has been widely used in the M2M industry of the industrial Internet of Things industry chain, such as self-service terminals, smart grids, smart transportation, smart homes, finance, mobile POS terminals, supply chain automation, industrial automation, smart buildings, fire protection, environmental protection, meteorology, digital Medical, telemetry, agriculture, forestry, water, coal, petrochemical and other fields.

Features:

High-performance dual-core communication dedicated processor

2 x 10/100/1000M Ethernet LAN/WAN Ports

4G NR/LTE-FDD/LTE-TDD/HSPA+ Network

NA/NSA networking mode, China Mobile Unicom Telecom and other 4G networks

1 x NANO SIM card slot

1 x TF card slot, which can support up to 128GB capacity expansion

2 x RS232/485 serial port

4 x Digital input DI port, 2 x digital output DO ports

Support DC9-28V input voltage

Support 35MM standard DIN rail installation

Details

Hardware	
CPU	MTK dual-core 880MHZ CPU
RAM	2Gbit RAM
SPI FLASH	16M(bytes)default
Nand Flash	128MB(Bytes)Optional
TF card expansion	Maximum support 128GB(Bytes) capacity expansion (optional)
OS	LINUX latest version

Cellular network band Support		
Network support	China Mobile Unicom Telecom Three-network universal 7-mode (4G/3G/2G universal)	<ul style="list-style-type: none"> • TDD-LTE B38/B39/B40/B41 • FDD-LTE B1/B3/B5/B8 • TD-SCDMA B34/B39 • WCDMA/HSDPA/HSPA+ B1/B8 • CDMA 1X/EVDO BCO • GSM/GPRS/EDGE 900/1800 MHz
	Telecom 3G	EVDO, CDMA2000 1X
	Unicom 3G	HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM
Theory of Bandwidth	<ul style="list-style-type: none"> • LTE CAT4- Uplink up to 50Mbps, Downlink up to 150Mbps • TD-HSDPA/HSUPA- Uplink up to 2.2 Mbps, Downlink up to 2.8 Mbps • HSPA+ Uplink up to 5.76 Mbps, Downlink up to 42 Mbps • WCDMA- Uplink/downlink up to 384Kbps • CDMA2000/EVDO Uplink up to 1.8Mbps, Downlink up to 3.1Mbps 	
Carrier support	Support the three major operators of China Mobile, China Unicom, and China Telecom, as well as operators of corresponding frequencies abroad	
Router characteristics:		
Firewall	Network Address Translation(NAT)	
	State full Packet Inspection(SPI)	
Media Access Control	CSMA/CA with ACK	
VPN protocol	PPTP, L2TP, OpenVPN Client	
DHCP	Build-in DHCP (Dynamic Host Configuration Protocol)	
Others protocol	Supported PPP, PPOE, DDNS, ICMP, VRRP etc	
Characteristic	FRP intranet penetration, and Modbus protocol etc.	

Serial port :	
Number of serial ports	2
Serial port standard	Each channel supports RS232/485 standard, Connect the corresponding physical interface
Serial port rate	Each channel supports RS232/485 standard, Connect the corresponding physical interface
RS232 pin definition	The first RS232 serial port: TXD1, RXD1, GND three-wire system The first RS485 serial port: A1, B1 two-wire system The second RS232 serial port: TXD2, RXD2, GND three-wire system The second RS485 serial port: A2, B2 two-wire system Note that each serial port can support 232/485, just connect the corresponding pins, not at the same time
Serial working mode	TCP Server TCP Client UDP Modbus RTU to Modbus TCP Server

IO port	
Digital quantity input	4 DI inputs
	DIN1, DIN2, DIN3, DIN4, DCOM is public port
	Work agreement : MODBUS TCP SERVER, Default port 502 The upper computer establishes a connection through MODBUS TCP CLIENT: SLK-R660 default IP+502 port
Digital quantity out	2 DO out
	DO1, COM1, DO2, COM2, COM is public port
	Relays out
	Work agreement : MODBUS TCP SERVER, Default port 502 The upper computer establishes a connection through MODBUS TCP CLIENT: SLK-R660 default IP+502 port

Other interfaces	
LAN/WAN interface	1x 10/100/1000M Ethernet LAN port
	1x 10/100/1000M Ethernet LAN/WAN port, the default is WAN port, which can be changed to LAN port from the configuration page
Reset button	1 reset button, reset to factory settings
antenna	4x 4G antenna (50Ω SMA interface)
LED	Power: Power indicator, always on when power is on SYS: System indicator, flashing during system startup, always on after startup 4G: After registering to the 4G network, this light is always on RDY: The network registration is normal and the light is always on when the network can

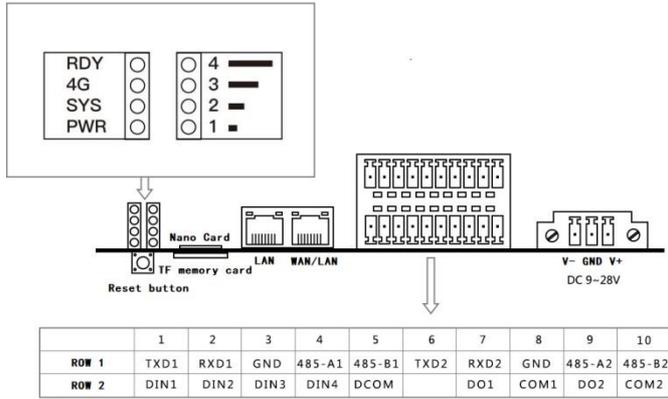
	be connected 4 LED lights on the right side are signal strength indicators
SIM card slot	1x self-elastic NANOSIM card slot, support 1.8/3.3V SIM card
TF card expansion slot	Support up to 128G(Bytes) TF card

Power interface	
Default power	DC12V/1.5A Power adapter (optional for US, EU and other standards)
Input VDC	9~28VDC
Power Consumption	20W (Max)

Physical data	
Operation temperature	Storage temperature: (-40°C to 85°C)
	Operating temperature: (-40°C to 75°C)
Relative humidity	95%
Size	L*W*H: 144mmx95mmx50mm
Install	Support 35MM DIN rail installation
Weight	net weight: 505g
	Accessories with packaging: 861g
Related certificates	CCC, CE, FCC, RoHS

other	
Warranties	2 year
Package Contents	4G CPE terminal, 1.5m RJ45 network cable, 12V/1.5A power adapter, 2 rod-shaped 4G antennas (or suction cup antenna optional) instruction manual (optional PDF version)

Interface definition diagram



Installation size

:

