

SLK-E900-LTE Series Industrial Grade 4G/3G Router Manual

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1 Introduction

1.1 Overview



SLK-E900 is an industrial-grade, high-performance, high-power WiFi plus 4G wireless router with WiFi gain of 27DB (500mw). The industrial GPRS/CDMA/WCDMA/EVDO/LTE 4G module is used to provide users with high-speed wireless access and stable wireless data transfer function. The routing chip is based on Qualcomm industrial 32-bit dedicated communication processor and supports LINUX embedded real-time operating system. It holds 1 SIM card interface, 4 LAN ports, 1 WAN port, and high-power WIFI interface. It also provides Internet access for both LAN port devices and WiFi port devices at the same time. With wide temperature, wide voltage input, and through static, surge and Electro Magnetic Compatibility (EMC) test, the device

is very stable and reliable. The SLK-E900 router has been widely used in the M2M industry of Internet of things (IoT) industry chain, such as self-service terminals, smart grid, smart transportation, smart home, finance, mobile POS terminals, supply chain automation, industrial automation, intelligent buildings, fire control, public security, environmental protection, meteorology, digital medical treatment, telemetry, military affairs, space exploration, agriculture, forestry, water, coal, petrochemical and other fields.

1.2 Features:

- ✓ High-performance 4G module, full Netcom support; multiple global band versions available
- ✓ Qualcomm AR9341 plan with main frequency 550MHZ
- ✓ High Power WiFi, 2x2 MIMO 2.4G, MAX power 27DB (500mw)
- ✓ 4x LAN ports, 1X WAN port, power port with lightning protection
- ✓ WAN port: POE power supply supported 9-50VDC
- Wide temperature design: -40° C to 85° C working environment
- Built-in hardware watchdog to prevent system crash
- Support Watchcat function, reboot of disconnection system, and hardware reset and recovery of 4G network
- GPS, GNSS optional



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1.3 Detailed Parameters

Cellular Interface:

Cellular Interface			
		Supported TDD-LTE B38/B39/B40/B41	
		Supported FDD-LTE B1/B3/B5/B8	
	AC/2C/2C Version	Supported TD-SCDMA B34/B39	
	4G/3G/2G Version	Supported WCDMA/HSDPA/HSPA+ B1/B8	
Band Supported		Supported CDMA 1X/EVDO BC0	
		Supported GSM/GPRS/EDGE 900/1800 MHz	
	EVDO 3G Version	Supported EVDO, CDMA2000 1X	
	HSDPA 3G Version	Supported	
		HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM	
	LTE CAT4-DL: 50Mbps, UL: 150Mbps		
Theom	TD-HSDPA/HSUPA	A-DL: 2.2 Mbps, UL: 2.8 Mbps	
I neory	HSPA+-DL: 5.76 Mbps, UL: 42 Mbps		
	WCDMA – DL/UL: 384Kbps		
	CDMA2000/EVDO	DL: 1.8 Mbps, UL: 3.1 Mbps	

WIFI Performance:

WIFI supported	
Standards	Supported IEEE 802.11 b/g/n
Frequency	2.4GHz (ISM band supported)
Transmitting	MAX: 27DB(500mw)
Power	Antenna: >10DB
Antennas	2 x SMA female 2.4G WIFI Interfaces
WIFI Rate	2 x 2 MIMO 300Mbps
Modulation Technique	802.11n 2x2 MIMO, 802.11a: OPDM, 6Mbps: -95dmb 802.11n, MCS0: -88dbm, MCS7: -73dbm

Router characteristi	cs	
	Network Address Translation (NAT)	
Firewall	State full Packet Inspection (SPI)	
Y.	Port Forwarding	
Media		
Access Control		
VPN protocol	Supported PPTP, L2TP, Openvpn	
DHCP	Built-in DHCP (Dynamic Host Configuration Protocol)	
Hardware	Ruilt in hardware watchdog to provent system crash	
Watchdog	Built-in hardware watchdog to prevent system clash	
Broken Network	Support Watchcat function, reboot of disconnection system, and hardware	
Detection	reset and recovery network for 4G	

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SLK-E900 Series Industrial Cellular Router

Other protocols Supported PPP, PPOE, DDNS, ICMP, VRRP etc

Hardware :

Hardware		ć
CPU	Qualcomm AR9341/550MHZ	
Flash/RAM	8MB/512Mbit	
OS	LINUX, OpenWRT	>

Interface:

Interface	
LAN Port	4 x 10/100M ports with 8KV
LAN Port	Surge: differential-mode 2KV/50A, common-mode 4KV/100A
Protection Level	Static Electricity: contact discharge \pm 4KV, air discharge \pm 8KV
WAN Port	1x 10/100M WAN port
WAN Port	Surge: differential-mode 2KV/50A, common-mode 4KV/100A
Protection Level	Static Electricity: contact discharge \pm 4KV, air discharge \pm 8KV
Reset	1x Reset
Antonnoo	2 x 3G/4G Antennas (50Ω SMA interface)
Antennas	2 x 2.4G WiFi SMA female interfaces
LED	Power-WiFi-3G/4G LED
SIM clot	Supported 1.8/3.3V SIM card, built-in 1.5KV ESD protection
51111 5101	We support SIM card converter to meet all size sim card

Power interface:

Weight

Power	
Default power	DC 12V/1A power adapter (US,EU etc)
Input VDC	9~50V
Protection Degree	Surge: common-mode 4KV/100A
Power	
Consumption	
Physical property:	
Physical property:	
Operating	Operating Temperature: (-40°C to 85°C)
Temperature	Storage Temperature: (-40°C to 100°C)
Relative Humidity	95%
Size	L*S*H: 150mm x 92mm x 44.1 mm
Installation Mode	DIN rail mount/desktop placement (optional)
	Net weight:600g

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Packing weight: 1.5kg



Others:				
others				
Warranty	2 years			
Package contains	SLK-E900-LTE Router, 1.5m long RJ45 Cable, 12V/1A Power Adapter,4G Antennas, WIFI Antennas, User manual(PDF optional),			

1.4 Order Information

Model	LAN	WAN	SIM	WIFI	4G
SLK-E900-LTE (GPS optional)	4	1	1	2	2
SLK-E900-HSDPA (GPS optional)	4	1		2	2
SLK-E900-EVDO (GPS optional)	4	1	1	2	2



2 Hardware Installation

2.1 Packing list

The packing list is as follows:

- ✓ 4G industrial router 1 pcs
- ✓ 4G sucker antenna 1pcs
- ✓ WIFI antennas 2pcs
- ✓ 12V/1A power adapter 1pcs
- ✓ 10/100M network cable 1 pcs
- ✓ instruction manual 1pcs

2.2 Interface Definition





SLK-E900 Series Industrial Cellular Router

2.3 Installation Size:





2.4 Hardware connection

Step1:Put the sim card into the router. As is shown:

Note: There is no support for hot-plugging SIM card. After you plug in the SIM card, you have to power it up again.

SIM card installation



Step2: Connect 1x 4G sucker antennas and 2x WiFi antennas to the identified interface. Note: you can just connect 1x 4G sucker antenna to Main 4G interface, AUX interface is a auxiliary interface can be disconnected under normal circumstances without affecting the reception and transmission of 4G signals.

Step3:Conncect to Power adapter into the router.

Power LED ON

WIIFI LED ON When the router os start finished

3G/4G LED fast blink means have register mobile network

Note: Usually, you don't need any Settings to get online. However, if you are a special SIM card, you need to set it according to the APN provided by the supplier.

INSTALLATION



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2.6 Indicator light description

This 4 g router is provided with the following signal indicator lights, according to "PWR", "3 g / 4 g",

"WIFI", "WAN", "LAN1 - LAN4"

Signal strength display:

Defines as follows:

LED	Status	Definition
	OFF	No power is plugged in, or the machine is damaged
PWR	Normally on	The power input is correct and the machine is energized
	Normally on	Not registered to 3G/4G networks
3G/4G	Quick flash	Registered to 3G/4G networks
	Slow flash	Not registered to 3G/4G networks
WIFI Normally on		SYS have ok, wifi have working
	Normally flash	The WiFi client connects successfully
		and has data interaction
WAN	OFF	WAN port cable not inserted (generally used for broadband
		line access)
	Normally flash	WAN port cable insertion with data interaction
LAN1-LAN4	OFF	No cable is inserted at the corresponding LAN port
	Normally flash	The corresponding LAN port has cable insertion and data
		interaction
RESET	4	Press up 5s then release to go to factory settings, you will
		see "wifi" led will off then ON. Mean to its successful

Note: How do I know if my router is working? Since the router works on the LINUX operating system, the PWR indicator will be on at first after the power is turned on, then the router system starts to start and the 4G network starts to work. After the startup is completed, the WiFi light will always be on (it will flash when there is data to send or receive), and the 4G/3G indicator light will flash, which means that the 4G router works normally and you can surf the Internet without any Settings.



3 Configuration Parameters

3.1 Prepare for router configuration

After the hardware installation is complete, you need to make sure that the management computer has a network card or WiFi network card installed in front of the Web Settings page of the login router.

3.2 Via LAN port login the router for setup or internet

Connect the yellow network cable to the router's LAN and the computer's Ethernet interface, then find the network and sharing center in the computer-control panel, click the local network connection and click properties:

SLK-E900-LTE default IP: 192.168.2.1, setup the computer of local ip as 192.168.2.x(x is 2-255)



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Manually modify the IP address as shown in the figure below, or click to automatically get the IP address automatically allocated by router DHCP.

Note: if want to through our 4 g router to the Internet, the default Gateway and DNS need to change to 192.168.2.1 as below:

Internet 协议版本 4(TCP/IPv4)	国性	? ×
常规		
如果网络支持此功能,则可以获取自 您需要从网络系统管理员处获得适当	自动指派的 IP 设置。否则, 当的 IP 设置。	
○ 自动获得 IP 地址(0)		
┌─④ 使用下面的 IP 地址(S): -		
IP 地址(I):	192 . 168 . 2 . 22	
子网摘码(い):	255 . 255 . 255 . 0	$\langle $
默认网关 (0):	192 .168 . 2 . 1	
○ 自动获得 DNS 服务器地址(B)	\sim	
┌──── 使用下面的 DNS 服务器地址O	E):	\
首选 DNS 服务器(P):	192 . 168 . 2 . 1	
备用 DNS 服务器(A):		
□ 退出时验证设置(L)	高級(♡)	
	确定取》	肖

3.3 Log in to the configuration page of the router

Note: using Google browser or A browser with A kernel over IE10. Default password: admin, no name required.

	Seriallink®	
5		Authorization Required
		Login



3.4 Via WIFI to configure the router or get internet

As shown in the figure, open the Control Panel - network and internet-network connection, select the wireless network connection, and click connect to. Find the router's SSID and enter the default password to connect to it. The default WiFi password is on the back of the router. The connection is successful, You can then configure this by entering the router's IP address in the browser. For SIM CARDS that do not require configuration, you can access the Internet as long as the WIFI connection is successful.





3.5 Via Mobile Phone to configure the router or get internet

Open the wireless local area network (WLAN) search to the router's SSID, begin with SLK - Routers, by default the WIFI password on the back of the router. After entering the password, you can access the Internet or enter the router IP address in the browser for configuration.

••••○ 中国联通	@ 1 ∦ ∎_)	17:47 🛪		II ? 🚱	
▲		1	92.168.2.1	C	7
无线局域网					
 SLK-Routers_078674 	₽ \$ (j)	Authorizatio	on Required		
选取网络 605	≜ 奈 (j)	Password			
666666	₽ ≎ (j	•••••			
拉斯范	₽ 중 (j)		Login		
燕秘堂	₽ ≎ (i)				

Click the position of the logo once and the configuration interface will pop up from the left side:



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3.5 Modify router default IP

Login the router - network - interfaces - LAN -EDIT - IPV4 addresses, change the ip to you want.

Status Actions Uptime: 3d 8h 3m 52s MAC-Address: 0C:FE:5D.B3:40.66 RX: 696.80 MB (3d10002 Pkts.) CONNECT TX: 3d 76 (d175463 Pkts.) CONNECT IPv4: 192.168 (21)/24 Pv5: (d55.a3a.c.6ffs::1/60 Uptime: 3d 8h 3m.48 CONNECT RX: 2.97 GB (3683055 Pkts.) CONNECT STOP EDIT DeLETE Pv4: 192.1682.1/24 Uptime: 3d 8h 3m.48 CONNECT RX: 2.97 GB (3683055 Pkts.) CONNECT TX: 64.02 4 MB (2775852 Pkts.) Pu50T IPv4: 101.224.25 25/32 DELETE Vptime: 0h 0m 0s CONNECT STOP RX: 0.00 B (0 Pkts.) CONNECT STOP TX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) DELETE
Status Actions Uptime: 3d 8h 3m 52s CONNECT STOP EDIT DELETE PX: 696.80 M8 (3410002 Pkts) FOR (4175463 Pkts) CONNECT STOP EDIT DELETE IPv4: 192.168 2.1724 IPv6: (485.80ac: 6df6:1/60 IPv6: (485.80ac: 6df6:1/60 IPv6: (485.80ac: 6df6:1/60 IPv6: (485.80ac: 6df6:1/60 Uptime: 3d 8h 3m 24s RX: 2.97 GB (3683055 Pkts)) EOIT DELETE IPv6: (101.22.45 25/2.32 Uptime: 0h 0m 0s MAC-Address: 0C-FE-5D B3.40.65 RX: 0.00 B (0 Pkts) EOIT DELETE TX: 0.00 B (0 Pkts) TX: 0.00 B (0 Pkts) EOIT DELETE
Status Actions Uptime: 3d Bh 3m 523 MAC-Address: 0C:FE 5D B3.40.66 RX: 696.80 MB (3410002 Pkts.) TX: 347 GB (4715463 Pkts.) IPv6: 192.168.2.1724 IPv6: 192.168.2.1724 IPv6: 192.168.2.1724 IPv6: 192.168.2.1724 IPv6: 192.168.2.1724 IPv6: 10565 Pkts.) IPv6: 102.168.2.3055 Pkts.) CONNECT STOP IPv6: 103.142.245.25/32 CONNECT STOP EDIT Uptime: 0h 0m 0s MAC-Address: 0C:FE:5D B3.40.65 CONNECT STOP EDIT DELETE TX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) EDIT DELETE EDIT DELETE
Status Actions Uptime: 3d 8h 3m 52s MAC-Address: 0.CFE 5D 83:40.66 RX: 696 08 M6 (410002 Pkts.) EDT PW: 152 168 2.1724 EDT IPv5: 168 2.383.65 (for 1.760 EDT Uptime: 3d 8h 3m 24s RX: 2.97 08 (3683055 Pkts.) IPv5: 168 2.4 M8 (277.5825 Pkts.) EDT IPv4: 10.142.245 25/32 EDIT Uptime: 0h 0m 0s MAC-Address: 0C-FE5D B3:40:65 RX: 0.00 B (0 Pkts.) EDIT
Status Actions Uptime: 3d 8h 3m 52s Actions MAC-Address: 0C:FE:5D:B3:40:66 EDIT PX: 69:65 0MB (3410002 Pkts.) EDIT TX: 3:47 GB (4715463 Pkts.) EDIT IPv4: 192:168:21/24 IPv4: 192:168:21/24 IPv4: 192:168:21/24 IPv6: 192:1724 IPv6: 10:10 IPv6: 192:1724 IPv6: 10:10 IPv6: 192:1724 IPv6: 10:10 IPv6: 192:
Uptime: 3d Bh 3m 52s MAC-Address: 0C:FE5DB3:40:66 RX: 596.80 MB (3410002 Pkts.) TX: 3.47 GB (4715463 Pkts.) IPv6: 1715462 Pkts.) IPv6: 1715462 Pkts.) CONNECT STOP EDIT DELETE IPv6: 1715462 Pkts.) IPv6: 1715462 Pkts.) IPv6: 1715462 Pkts.) IPv6: 1715462 Pkts.) IPv6: 1706 20055 Pkts.) IPv6: 1707 PB (36280755 Pkts.) IPv6: 1707 PB (3775852 Pkts.) IPv7: 1707 PB (3775852 Pkts.)
RX: 696.80 MB (3410002 Pkts.) TX: 347 68 (471563 Pkts.) IPv4: 192.168.2.1/24 IPv5: (d853.88c.6df6:1.760 Uptime: 3d h3m 248 RX: 2.97 GB (3683055 Pkts.) TX: 646.24 MB (2775652 Pkts.) IPv4: 10142.245.25/24 Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0.00 B (0 Pkts.) Uptime: 0h 0m 0s MAC-Address: 0C.FE: 5D B3:40.65 RX: 0C.FE:
IPv4: 192.168.2.1724 IPv6: fd85.a8a: 6df6::1/60 Uptime: 3d B1 3m 24s RX: 2.97.08 (3683055 Pkts.) IPv6: fd12.245.257.23 Uptime: 0h 0m 0s MAC-Address: 0C.FE:D.B3.40.65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)
Uptime: 3d 8h 3m 24s RX: 2.97 GB (3683055 Pkts.) TX: 662, 24MB (2775852 Pkts.) IPv4: 10.142.245.25/32 Uptime: 0h 0m 0s MAC-Address: 0.07 ED B3.40.65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) EDIT DELETE TX: 0.00 B (0 Pkts.)
HK 2.27 (BG (3683058 PKIS.)) TX: 665 (248105 277852 PKIS.)) IPv4: 10.142.245.25/32 Uptime: 0h 0m 0s MAC-Address: 0:CFE 5D B3.40:65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) EXPRCE: VLANKE (e.g., eth0.1).
IPv4: 10.142.245.26/32 Uptime: 0h 0m 0s MAC-Address: 0C-FE-5D-B3.40.65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) uure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces : SEVENCE. VLANK (e.g., eth0.1).
MAC-Address: 0:CFE:5D B3:40:65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) ure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces textures. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces textures. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces textures. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces textures. YuaNNR (e.g., etho. 1).
TX: 0.00 B (0 Pkts.) uure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces to EXTACE. VLANNK (e.g., etho. 1).
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ure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces (RENACE, VLANNE (e.g., eth), 1).
ure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces EXPACE. VLANNE (e.g., etho, 1).
ure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces : EXPACE. VLANNE (e.g., etho. 1).
an lane rename Carder Anna 197
Advanced Settings Physical Settings Firewall Settings
Status Uptime: 3d 8h 5m 39s
 RX: 696.95 MB (3411363 Pkts.)
br-lan TX: 3.48 GB (4716896 Pkts.) IPv4: 192.168.2.1/24
IPv6: fd85:a8ac:6df6::1/60
Protocol Static address *
address 10216821
192.100.2.1
etmask 255.255.255.0
jateway
Pro ac



3.6 Change the WiFi password and ESSID

Login the router: Network- WiFi - EDIT - wireless security, changes the WIFI password Login the router: Network- WiFi - EDIT - ESSID, change the WIFI SSID

General Setup Advanced	Settings
Status	Mode: Master SSID: SLK-Routers_B34064 BSSID: 0C:FE:5D:B3:40:64 Encryption: mixed WPA/WPA2 PSK (CCMP) Channel: 8 (2:447 GHz) Tx-Power: 29 dBm Signal: -24 dBm Noise: -89 dBm Bitrate: 93.9 Mbit/s Country: US
Wireless network is enabled	DISABLE
Operating frequency	Mode Channel Width N v 8 (2447 MHz) v 40 MHz v
NS Transmit Power	29 dBm (794 mW) v Ø dBm
Interface Configuration	
General Setup Wireless	ecurity MAC-Filter
ESSID	SLK-Routers_B34064
Mode	Access Point •
Network	an: 2 2 wan: 2
General Setup Advanced	Settings
Status	Mode: Master [SSID: SLK-Routers_B34064 BSSID: 0C:FE:5D:B3:40:64 Encryption: mixed WPA/WPA2 PSK (CCMP) Channel: 8 (2:447 GHz) Tx-Power: 29 dBm Signal: -23 dBm Noise: -89 dBm Bitrate: 97.5 Mbit/s Country: US
Wireless network is enabled	DISABLE
Operating frequency	Mode Channel Width N * 8 (2447 MHz) *
Transmit Power	29 dBm (794 mW) ▼ Ø dBm
Interface Configuration	
General Setup Wireless	AC-Filter
Encryption	WPA-PSK/WPAZ-PSK Mixed Mode
Cipher	auto



3.7 APN settings

Note: Most of the world's operators allow access to the Internet without any APN, but some special SIM CARDS require special APN Settings to access the Internet. The following is an example of M2M card of Chinese operators. What is the specific APN, you can consult your mobile operator.

				~
Operator	APN	user	password	Dial Number
China	ctm2m	*.m 2m or	vnet.mobi	*99#
Telecom IOT		m2m)	vnet.mobi	*99#
card				
China	unim2m.njm2mapn			*99#
Unicom IOT				\rightarrow
Card				

The default APN Settings are as follows: you can see that no APN, no username, no password. 3G/4G uptime means that internet keep online time ,and tx, rx data .All that showing you can access internet.

▲ Status			
★ System	terfaces		
🕹 Services	nterface Overview		
Network	Network	Status	Actions
Wifi Switch	LAN 2 ⁹ 2 2 br-lan	Uptime: 7d 4h 19m 28s MAC-Address: 0C-FESDB3:40.66 RX: 1.34 GB (6721156 Pkts) TX: 5.73 GB (8824413 Pkts) IPv4: (192.168.2.1/24 IPv4: (192.88a.c6ffc-1/60	CONNECT STOP EDIT DELET
DHCP and DNS Static Routes Diagnostics	4G 3g-4G	Uptime: 7 d Ah 19m 0s RX. 4.67 GB (6676223 Pkts.) TX: 1.23 GB (65438310 Pkts.) IPv4: 10.142.245.25/32	CONNECT STOP EDIT DELET
Firewall QoS	WAN eth0	Uptime: 0h 0m 0s MAC-Address: 0C:FE:5D:B3:40:65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	CONNECT STOP EDIT DELET
▲ Status	ADD NEW INTERFACE General Setup	Advanced Settings Firewall Settings	
 System▲ Services		Status Uptime: 7d 4h 19m 54s ■ RX: 4 67 GB (6676696 Pkts.) 3g-46 TX: 1.23 GB (5438833 Pkts.) IPv4; 10 142, 245 25/32	
Network		Protocol UMTS/GPRS/EV-DO	
Interfaces Wifi		Aodem device /dev/ttyUSB3	
Switch		Service Type 4G only	
DHCP and DNS Static Routes		APN	
Diagnostics		PIN	
Firewall QoS	PAP/CI	AP username	
G→ Logout	PAP/C	AP password	
		Dial number *99#	



Parameter interpretation

Protocol :Do not need setup, keep default please .UMTS/GPRS/EVDO This is Dial-up Protocols,4G is same as 3G.

Modem device: do not need setup, keep default please.

Service Type: others do not need setup.

4G Only means :work as 4G mode, no 4G signal will auto fallback to 3G.

VPDN if you have VPDN card ,you can setting as that ,input APN ,Username, password.

APN: Access Point Name, supplied from mobile sim card operator

PAP/CHAP username: supplied from mobile sim card operator

PAP/CHAP password: supplied from mobile sim card operator

Dial number: keep default :*99#

Advanced settings and firewall settings keep default please.

3.8 L2TP,PPTP settings

The SLK-E900-LTE just supported l2tp,pptp client that supported work as running L2TP,PPTP Router, can not supported Windows l2tp,PPTP. Because it has poor compatibility.

Now let's take the configuration of L2TP as an example, and set up PPTP in the same way:

Log in Router, Network—Interface—ADD NEW INTERFACE

•	Status	Interfaces					
*	' System	Interface Overview					
ٹ	, Services	Network	Status		Act	ions	
3	Network		Uptime: 7d 4h 55m 13s				
	- Interfaces	LAN	MAC-Address: 0C:FE:5D:B3:40:66 RX: 1.34 GB (6755988 Pkts.)				-
	Wifi	br-lan	TX: 5.75 GB (8864090 Pkts.)		CONNECT	EDIT	ELETE
	Switch		IPv6: fd85:a8ac:6df6::1/60				
	DHCP and DNS	4G	Uptime: 7d 4h 54m 45s			-	
× 14	Static Routes	3g-4G	TX: 1.24 GB (5463989 Pkts.)		CONNECT STOP	EDIT D	ELETE
	Diagnostics	WAN	Uptime: 0h 0m 0s				
	Firewall	Ŀ	MAC-Address: 0C:FE:5D:B3:40:65 RX: 0.00 B (0 Pkts.)		CONNECT STOP	EDIT D	ELETE
	QoS	eth0	TX: 0.00 B (0 Pkts.)				-
G	Logout	ADD NEW INTERFACE					
		Global network options	fd85:a8ac:6df6://48				
n 9	Status	reate Interface					
*	System						
23	Services	Name of the new interface L2	P				
	Network	Oth	allowed characters are: x-2, x-z, 0-9 and _				
_		Note: interface name length					
	Logout	© Ma	ximum length of the name is 15 characters including the a	utomatic protocol/bridge prefix (br-, 6in4-, pppoe- etc.)			
		Protocol of the new interface L2	Th .				
	в	ACK TO OVERVIEW				/	SUBMIT

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Common Configuration	
General Setup Advanced Settings Firewall Settings	
Create / Assign firewall-zone a Ian: Ian: 2 b wan: wan: 2 c unspecified -or- create:	
O Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the creater zone and attach the interface to it.	field to define a new
ACK TO OVERVIEW SAVE & APPL	Y SAVE RESET
terfaces - L2TP 46 LAN terfaces - L2TP this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by s te VLAN notation INTERFACE. VLANR (e.g., eth.).	paces. You can also
Common Configuration	
General Setup Advanced Settings Firewall Settings	
Status RX: 0.00 B (0 Pkts.) I2tp-L2TP TX: 0.00 B (0 Pkts.)	
Protocol L2TP *	
L2TP Server	
PAP/CHAP username	
PAP/CHAP password	
BACK TO OVERVIEW	SAVE RESET

VPN server and username password can be set at the location shown in the figure, and the WAN&4G TAB can be selected at the firewall location. VPN outlet is WAN or 4G network. This completes the VPN setup.

When the VPN-L2TP connected ,you will see the tx ,rx data.

	·			
	Interfaces	Network	Status	Actions
	Wifi		Uptime: 7d 5h 3m 17s	
	Switch	LAN	MAC-Address: 0C:FE:5D:B3:40:66	
	DHCP and DNS	øø <u>e</u> e ∰ br-lan	HX: 1.34 GB (6762280 Pkts.) TX: 5.75 GB (8870918 Pkts.) UPwd: 102 169 21/24	CONNECT STOP EDIT DELETE
	Static Routes		IPv6: fd85:a8ac:6df6::1/60	
	Diagnostics	4G	Uptime: 7d 5h 2m 49s BX: 4.69 GB (6709554 Pkts.)	
	Firewall	1997 - 19	TX: 1.24 GB (5468088 Pkts.) IPv4: 10.142.245.25/32	CONNECT STOP EDIT DELETE
	QoS	L2TP		
\sim \setminus	🕒 Logout	I2tp-L2TP	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	CONNECT STOP EDIT DELETE
		WAN	Uptime: 0h 0m 0s	
		eth0	MAC-Address: 00:PE:51:153:40:65 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	CONNECT STOP EDIT DELETE

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3.9 Port forwarding and DMZ Settings

Note: If the 4G IP that the operator gives you is a public network IP or L2TP IP that can be pings, you can forward the port. Take forwarding port 80 as an example

Interfaces	Network	Status	Actions
Wifi Switch DHCP and DNS Static Routes	LAN 85 2 10 br-lan	Uptime: 7d 5h 7m 32s MAC-Address: 0C:FE: DD:B3:40:66 RX: 1:34 48 (6765210 Pkts.) TX: 5.75 6B (8873995 Pkts.) IPv4: 192.168.2.1/24 IPv6: fd85:a8ac:6df6::1/60	CONNECT STOP EDIT DELETE
Diagnostics Firewall	4G 5g-4G	Uptime: 7d 5h 7m 4s RX: 4.69 GB (6711350 Pkts.) TX: 1.24 GB (5469926 Pkts.) IPv4: 10.142.245.25/32	CONNECT STOP EDIT DELETE
Logout	L2TP I2tp-L2TP	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	CONNECT STOP EDIT DELETE
	WAN eth0	Uptime: 0h 0m 0s MAC-Address: 0C:FE:5D:B3:40:65 RX: 0:00 B (0 Pkts.) TX: 0:00 B (0 Pkts.)	CONNECT STOP EDIT DELETE

Step 1: all change as accept.

▲ Status	Enable SYN-flood protection	0						
🛠 System	Drop invalid packets	1						
🕹 Services	Input	accept	٠					
Network	Output	accept	*					
Interfaces	Forward	accept						
Wifi	-	*						
Switch	7							
DHCP and DNS	Zones							
Static Routes	Zone ⇒	Forwardings	Input	Output	Forward	Masquerading	MSS clamping	
Diagnostics	tone tree a		accept *	accept *	pocent *			
Firewall	inth, Julii 22	Wall	accept	accept	accept	1.21		DELETE
QoS		I ATD CALL ON DE LECT	accept *	accent *	pocent *	2	2	
🕒 Logout	warr wan 22	LETITLE A REJECT		accept +	Accept +	8	80	DELETE
	ADD		/					
	_							
						-	SAVE &	APPLY SAVE RESET

Step 2: add you want to forwarding port

	Interfaces Wifi	Forward accept	×					
	Switch DHCP and DNS	Zones						
	Static Routes	Zone ⇒ Forwardings	Input	Output	Forward	Masquerading	MSS clamping	
X.	Diagnostics Firewall	lan: lan: ﷺ → wan	accept *	accept 🔻	accept *			EDIT DELETE
	QoS Œ Logout	wan: wan 🛃 46 👼 L2TP 👼 🗢 ACCEPT	accept *	accept *	accept 🔻	2		EDIT
		ADD						
							SAVE &	APPLY SAVE RESET



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Step3 : Port name 80 ,or others you want to as name. Protocol :TCP+UDP or ,TCP,UDP. External zone :WAN External port:80 or others you want to setup port number Internal IP Address: you want to forwarding port

All finished ,click ADD and SAVE&APPLY

♠ Status	General Settings Port Forwards Traffic Rules Custom Rules
🛠 System	Firewall - Port Forwards Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN.
Network Interfaces	Port Forwards
Wifi	Name Match Forward to Enable Sort
Switch	This section contains no values yet
Static Routes	
Diagnostics Firewall	Name Protocol External zone External zone Internal zone Internal IP address Internal port
QoS	80 TCP+UDP • wan • 80 Ian • 192.168.2.163 (PSDJUJKWK1K7WI3) • 80 ADD
🕒 Logout	SAVE & APPLY SAVE RESET
♠ Status	
🛠 System	General Settings Port Forwards Traffic Rules Custom Rules
🕹 Services	Firewall - Port Forwards
Network	Port forwarding allows temote computers on the internet to connect to a specific computer or service within the private Law.
Interfaces	Port Forwards
Wifi	Name Match Porward to Enable Sort
Switch DHCP and DNS	80 From any host in wan IP 192.168.2.163; port 80 in lan II rest to the second
Static Routes Diagnostics	New port forward:
Firewall	Name Protocol External zone External nort Internal zone Internal ID address Internal nort
QoS	
E Logout	
	SAVE & APPLY SAVE RESET

Forwarding all the ports means DMZ: Not entering any internal and external ports means forwarding all ports.

	♠ State ★ Syst	tus tem	General Settings	Port Forwards	Traffic Rules	Custom Ru	les					
	🕹 Serv	vices	Firewall - Port Fo	rwards vs remote compute	ers on the Internet	to connect to a s	pecific computer o	r service within the private LAN.				
	🕑 Netv	work	Port Forwards									
$\left(\right)$	Interf Wifi	faces	Name		Match		ļ	Forward to	Enable	Sort		
	Swite	ch IP and DNS	80	IPv From a Via <i>any r</i>	4-TCP, UDP any host in wan outer IP at port 80		IP 192.168	3.2.163, port 80 in <i>Ian</i>		* ×	EDIT DELETE	
	Statio Diagr	ic Routes Inostics					New port forwar	d:				
	GoS	wall	Name	Protocol	External zone	External port	Internal zone	Internal IP address		Internal port		
	🕞 Loga	iout	DMZ	TCP+UDP +	wan 🔻	1	lan 🔻	192.168.2.163 (PSDJUJKWK1K	7WI3) ¥	ADD	SAVE & APPLY SAVE RESE	न

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tem	General Settings	For Forwards manic hules custo	in nules				
vices	Firewall - Port Fo	rwards rs remote computers on the Internet to connect	to a specific computer or service within the private L	AN.			
vork	Port Forwards						
faces	Name	Match	Forward to	Enable	Sort		
h 9 and DNS	80	IPv4-TCP, UDP From <i>any host</i> in <i>wan</i> Via <i>any router IP</i> at port <i>80</i>	IP 192.168.2.163, port 80 in lan	×		EDIT DELETE	
: Routes lostics	DMZ	IPv4-TCP, UDP From <i>any host</i> in <i>wan</i> Via <i>any router IP</i>	IP 192.168.2.163 in lan	2		EDIT DELETE	
241							

3.10 Setup the Watchcat

First you must keep the Ping host can be Ping successful, if not ,the Router will be reboot and the 4G will be reboot for reconnect internet .

You just need setup

Period: default:10m , you can setup as 3m,4m etc.

Ping host: default ,114.114.114.114, here you can setup your host ip ,if can not ping ,router will be root and reboot .

🛠 System	watchcat allows to contigure a perio	one rebot and/or when internet connection has been lost for a certain period of time.
Services		DELETE
Dynamic DNS	Operating mode	Reboot on internet connection lost •
Watchcat	Forced reboot delay	30
OpenVPN		a When reheating the system the watchest will trigger a soft reheat. Entering a new value have will trigger a delayed hard labout if the soft reheat fails. Enter a
UPNP		number of seconds to enable, use 0 to disable
Network	Period	10m
🕒 Logout		In periodic mode, it defines the reboot period. In internet mode, it defines the longest period of time without internet access before a reboot is engaged. Default unit is seconds, you can use the suffix 'm' for minutes, 'h' for hours or 'd' for days
	Ping host	114.114.114
		© Host address to ping
	Ping period	
		How often to check internet connection. Default unit is seconds, you can you use the suffix 'm' for minutes, 'h' for hours or 'd' for days

Note: if you do not put in sim card into the router ,waiting 10m the router will be reboot ,or you can not access internet the router will be reboot .if you do not need this function please click DELETE



3.11 SLK-E900-LTE via any others wifi router access internet

1:SCAN WIFI							4
radio	0: Master "SLK-Routers_B34064"						
ystem Wirele	ss Overview						
erfaces	Generic MAC80211 80 Channel: 8 (2.447 GHz) Bi	12.11bgn (radio0) itrate: 98.2 Mbit/s					SCAN ADD
tch	SSID: SLK-Routers_B: 100% BSSID: 0C:FE:5D:B3:4	34064 Mode: Master 0:64 Encryption: mixed WP	A/WPA2 PSK (CCMP)				DISABLE EDIT REMOVE
ic Routes Assoc	iated Stations						
watt	SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
jout	SLK-Routers_B34064	E4:B2:FB:EE:0B:45	192.168.2.173	-28 dBm	-90 dBm	24.0 Mbit/s, MCS 0, 20MHz	144.4 Mbit/s, MCS 15, 20MHz
	SLK-Routers_B34064	A0:88:69:3E:F9:C7	192.168.2.163	-20 dBm	-90 dBm	39.0 Mbit/s, MCS 4, 20MHz	52.0 Mbit/s, MCS 5, 20MHz
tus 4	hidden & Channel: 1 Mode: Master BS	SID: 8C:C7:D0:0A:43:50 Er	ncryption: open				JOIN NETWOR
vices 78	DT2 Channel: 2 Mode: Master BS	SID: C8 EE A6 29 50 1F En	cryption: <u>WPA2 - PSK</u>				JOIN NETWOR
work 4	501 Channel: 1 Mode: Master BS	SID: 10:60 DE DE 13 DC E	ncryption: mixed WPA	WPA2 - PSK			JOIN NETWOR
100	Seriallink-AP ☆ Channel: 2 Mode: Master BS	SID: 00:02:2A:08:B7:9C Er	cryption: mixed WPA/	WPA2 - PSK			JOIN NETWOR
841	BaiJi Channel: 3 Mode: Master BS	SID: C8:3A:35:7A:13:51 En	cryption: mixed WPA/	WPA2 - PSK			JOIN NETWOR
100	ChinaNet-slk-001 Channel: 4 Mode: Master BS	SID: 84:74:60:92:8B:F0 En	cryption: mixed WPA/	WPA2 - PSK			JOIN NETWOR
581	ChinaNet-DdRr Channel: 3 Mode: Master BS	SID: 04:33:89:BE:23:34 En	cryption: mixed WPA/	WPA2 - PSK			
65	ChinaNet-GT6k Channel: 4 Mode: Master BS	SID: C8:F8:6D:83:91:49 En	cryption: mixed WPA/	WPA2 - PSK			JOIN NETWOR
78	CMCC-hCkz Channel: 3 Mode: Master BS	SID: 90:6F:52:97:FA:30 En	cryption: mixed WPA/	WPA2 - PSK			JOIN NETWOR

Step 2:Input WIFI password then SUBIT.

Status Join Network: Settings	
★ System Replace wire	ess 🖉 🚽
Configura	on Ø An additional network will be created if you leave this unchecked.
C Logout WPA passphr	ise Image: Specify the secret encryption key here.
Name of the new netw	ork wwan © The allowed characters are: A=7, a=2, 0=9 and _
Create / Assign firewall-z	ne Ianc <
	• Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the create field to define a new zone and attach the interface to it.
	SUBMIT BACK TO SCAN RESULTS

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Network	Status	Actions
	Uptime: 7d 6h 36m 44s	
LAN	MAC-Address: 0C:FE:5D:B3:40:66	
br-lan	TX: 5.82 GB (8995747 Pkts.)	CONNECT STOP EDIT DELETE
	IPv4: 192.168.2.1/24 IPv6: fd85:a8ac:6df6::1/60	
4G	Uptime: 7d 6h 36m 16s	
20-40	TX: 1.29 GB (5556936 Pkts.)	CONNECT STOP EDIT DELETE
59.40	IPv4: 10.142.245.25/32	
WAN	MAC-Address: 0C:FE:5D:B3:40:65	
eth0	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	UNITED TO EDIT
WARAN	Uptime: 0h 3m 54s	
9	MAC-Address: 0C:FE:5D:B3:40:64 RX: 4.51 MB (7681 Pkts.)	CONNECT STOP EDIT DELETE
Client "ChinaNet-slk-001"	TX: 1.10 MB (6553 Pkts.)	

3.12 Custom Commands for test 4G status

The meaning is explained as follows:

- SIM ready to represent the router has read the SIM card, if it is SIM ERRO rep didn't read the SIM card, or a SIM card is not good.
- Chn-ct represents the registered operator of China telecom. Different operator CARDS have different names.
- "Signal Quality:29,99" Represents the signal value of 29, generally more than 20 signal is normal.
- Returns the following information to indicate that 4G is able to access the Internet normally, if there is any error message on behalf of the registered network exception.

▲ Status Dashboard Configure ★ System Custom Commands System Custom Commands Administration Test Backup / Flash Test Firmware Command: goom rd /de v/tt yUS82 Reboot RUN DOWNLOAD			
System Custom Commands Administration Firsh Backup / Flash Test Firmware Command: geom =d /de v/ttyUSE2 Reboot INN DOWNLOAD	1	Status	Dashboard Configure
System Custom Commands Administration Fissh Backup / Flash Test Firmware Command: gcom =d /dev/ttyUSE2 Reboot RUN DOWNLOAD	*	System	
Administration Backup / Flash Firmware Custom Commands Command: gcom -d /dev/ttyUSB2 Reboot RUN DOWNLOAD		System	Custom Commands
Backup / Flash Firmware Commands Command: gcom -d /dev/ttyUSB2 Reboot RuN DOWNLOAD		Administration	
Custom Commands Command: goom rd /dev/ttr/USB2 Reboot RUN DOWNLOAD		Backup / Flash Firmware	Test
Reboot RUN DOWNLOAD		Custom Commands	Command: gcom -d /dev/ttyUS82
🕹 Services		Reboot	RUN DOWNLOAD
) 2	Services	
Network	6) Network	
🕒 Logout	G	• Logout	
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▲ Status	Daebhoard Confirme	
🛠 System	autinouru conngute.	
System	Custom Commands	
Administration		
Backup / Flash Firmware	Test	
Custom Commands	Command: gcom =d /dev/ttyUSB2	
Reboot	HIN DOWNLOAD	
📥 Services		
Network		
🕒 Logout	Collecting data	P
	# goom -d /dev/tyU3B2 SM ready Waiting for Registration. (120 see max) Registered on Home network: "CHN-UNICOM", 7 Signal Quality: 0, 99	
	Command successful (Code: 0)	

3.13. Flash firmware.

Do not keep settings , choose you want to update Image and click FLASH IMAGE.

n Status	Flash operations
System	Actions Configuration
ystem dministration	Backup / Restore Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images)
:kup / Flash nware	Download backup: GENERATE ARCHIVE
om Commands ot	Reset to defaults: PERFORM RESET
rvices	To restore configuration files, you can upload a previously generated backup archive here.
twork	Restore backup: 通 提择文件 未选择任何文件 UPLOAD ARCHIVE
ogout	Flash new firmware image Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).
	Keep settings:
	Image: 选择文件 非选择任何文件 FLASH IMAGE
Seriallink - Flashing >	
0 0 1021682	/cai_bin/luci/stok=0052b291c2dd4cbb5202df0cs29cs752/admin/system/flashops

The system is flashing now. DO NOT POWER OFF THE DEVICE! Wait a few minutes until you try to reconnect. It might be necessary to renew the address of your computer to reach the device again, depending on your settings.

Waiting for changes to be applied...



SLK-E900 Series Industrial Cellular Router

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