

LINKA10

LTE/WiFi/Ethernet/Serial

Linka10 is a high performance 3G/4G advanced multi-networking platform designed to provide a secure reliable connectivity for mission critical applications in industrial, public safety, transit and other field deployments. Linka100 offers both LTE and WiFi connectivity, support RS232/485, Ethernet port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial and Ethernet devices with a basic configuration.



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Features

- High-performance
- Multi WAN access methods
- Including static IP, DHCP, L2TP, PPTP, PPPOE, 2.5G/3G/4G
- Support double link backup between Cellular and WAN (PPPOE, ADSL) (optional)
- VPN client (PPTP, L2TP, IPSEC and GRE) (only for VPN version)
- VPN server (PPTP, L2TP, IPSEC and GRE) (only for VPN version)
- Multiple DDNS provider service
- Support local and remote firmware upgrade, import and export configure file
- Support NTP, RTC embedded
- Support VLAN, MAC Address clone, PPPOE Server
- Support multiple online trigger ways, including SMS, ring and data. Support link disconnection when timeout
- WIFI support 802.11b/g/n. support AP, client, Repeater, Repeater Bridge mode
- Support APN/VPDN
- Support DHCP server and client, firewall, NAT, DMZ host, URL block, QOS, traffic statistics, real time link speed statistics
- Full protocol support, such as TCP/IP, UDP, ICMP, SMTP (optional), HTTP, POP3 (optional), OICQ (optional), TELNET, FTP(optional), SNMP, SSHD, etc

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- Design for Industrial Applications
- High-powered industrial cellular module
- 32bits CPU
- Support low-consumption mode, including sleep mode, scheduled online/offline mode
- Housing: iron, providing IP30 protection
- Power input: DC 6~40V

Stability & Reliability

- Support hardware and software WDT
- Auto recovery mechanism, including online detect, auto redial when offline to ensure router always online
- Ethernet port: 1.5KV magnetic isolation protection
- RS232 port: 15KV ESD protection
- SIM/UIM port: 15KV ESD protection
- Power port: reverse-voltage and over-voltage protection
- Antenna port: lightning protection (optional)

Standard and Convenience

- Support standard RS232
- Ethernet port that can connect to serial,
- Ethernet devices directly Support intellectual mode, enter into communication state automatically when powered
- Provide management software for remote management
- Support several work modes
- Convenient configuration and maintenance interface (WEB or CLI)

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Technical Specifications

Item	Content
WCDMA ROUTER	
Standard and Band	UMTS/WCDMA/HSDPA/HSUPA/HSPA+ 850/1900/2100MHz, 850/900/1900/2100MHz(optional) GSM 850/900/1800/1900MHz GPRS/EDGE CLASS 12
Bandwidth	DC-HSPA+: Download speed 42Mbps, Upload speed 5.76Mbps HSPA+: Download speed 21Mbps, Upload speed 5.76Mbps HSDPA: Download speed 7.2Mbps, HSUPA: Upload speed 5.76Mbps UMTS: 384Kbps
TX power	<24dBm
RX sensitivity	<-109dBm
FDD LTE ROUTER	
Standard and Band	LTE FDD 2600/2100/1800/900/800MHz, 700/1700/2100MHz(optional) DC-HSPA+/HSPA+/HSDPA/HSUPA/UMTS 850/900/2100MHz, 800/850/1900/2100MHz(optional) EDGE/GPRS/GSM 850/900/1800/1900MHz GPRS CLASS 10 GPRS CLASS 12

Item	Content
Standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (max) IEEE802.11n: 150Mbps (max)
Security	WEP, WPA, WPA2, etc WPS (optional)
TX power	20dBm (11n), 24dBm(11g), 26dBm(11b)
RX sensitivity	<-72dBm@54Mbps

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Hardware System

Item	Content
CPU	Industrial 32bits CPU
FLASH	16MB(Extendable to 64MB)
DDR2	128MB

Item	Content
Ethernet	1 10/100 Mbps Ethernet port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
Serial	1 RS232 port, 15KV ESD protection Data bits: 5, 6, 7, 8 Stop bits: 1, 1.5(optional), 2 Parity: none, even, odd, (space, mark)(optional) Baud rate: 2400~115200 bps
Indicator	"PWR", "SYS", "SIM", "Online", "ETH", "Signal Strength"
Antenna	Cellular: 1 or 2 Standard SMA female interface, 50 ohm, lightning protection(optional)
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Power	Standard 3-PIN power jack, reverse-voltage and overvoltage protection
Reset	Restore the router to its original factory default settings

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