LA-IR100NR

5G Industrial Router 1x1000M ETH WAN, 4x1000M ETH LAN

2 SIM slot & 2.4GHz/5.8GHz WIFI Support

Overview

LA-IR100NR is a wireless communication router for the internet of Things (IoT), it uses a high-performance industrial level 32-bit communication processor and wireless module, embedded with the real-time operating system as the software platform, and using 3G/4G/5G cellular network to provide users with wireless long-distance large data transmission function.

Features

Industrial-grade Design

● High-performance industrial-grade wireless module
● High-performance industrial-grade 32-bit communication processor
● Metal shell, protection grade IP30. Metal housing and system safety isolation
● Wide power input DC9-36V

Stability & Reliability

● WDT Watchdog design to ensure system stability
● Adopt a complete anti-drop mechanism to ensure that the data terminal is always online
● Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
● RS232/RS485 interface power and data isolation, in line with CSA, UL and IEC standards
● SIM/UIM card interface built-in 15KV ESD protection
● Built-in reverse phase protection and over voltage protection for power interface

Standard & Convenience

- Standard RS232, RS485, Ethernet and WIFI Interface
- Standard WAN port (support standard PPPOE protocol), which can be directly connected to ADSL equipment
- Intelligent data terminal, can enter data transmission state after power on
- Easy to use, flexible, multiple working mode options
- Convenient system configuration and maintenance interface (WEB/CLI)
- Support wall-mounted, pole-mounted installation

High Performance

- Multiple WAN connection methods, include static IP, DHCP, PPPOE, 3G/UMTS/4G/LTE, DHCP-4G/5G
- 3G/4G/5G and wired WAN dual link backup(optional)
- VPN client PPTP/L2TP/IPSEC (only available in VPN version)
- VPN sever PPTP/L2TP/IPSEC (only available in VPN version)
- Remote management SYSLOG/SNMP/TELNET/SSH/HTTPS
- Support local upgrade and remote upgrade, Import and export configuration files
- NTP/Built in RTC
- MAC address clone
- WIFI support 802.11b/g/n/ac, support WIFI AP /AP Client/bridge mode etc. (optional)
- WIFI support WEP/WPA/WPA2 encryption
- Support multiple online and offline trigger modes
- Support APN/VPDN
- Support DHCP server/DHCP client/DHCP binding MAC/DDNS/NAT/DMZ/QOS
- Support TCP/IP/UDP/FTP (Optional)/HTTP and other network protocols
- Support SPI firewall
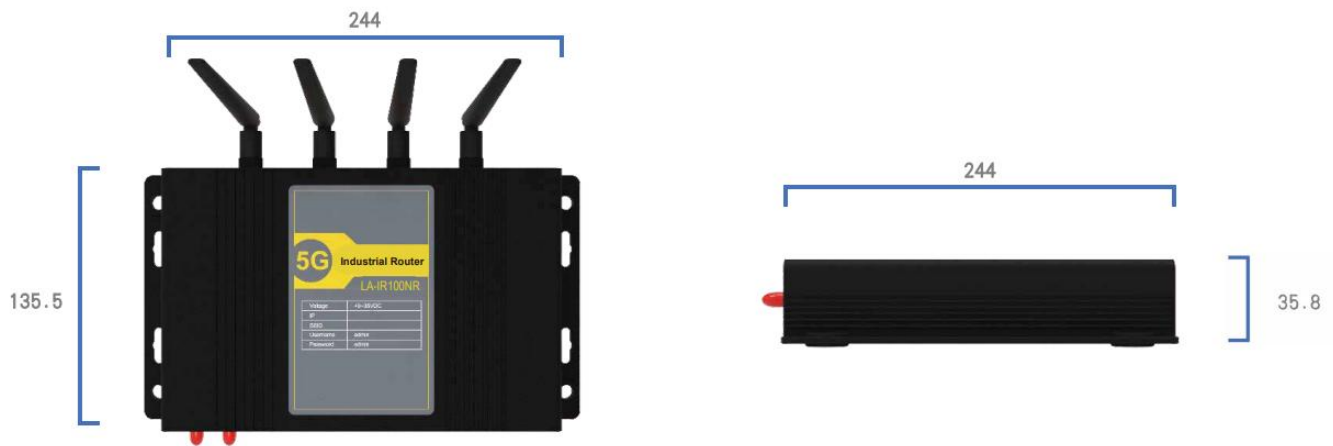- Support URL filter
- Support IPV6/IPV4

Specification

Cellular Specification	
Module	Industrial grade wireless module
Frequency	**5G NR**: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79 **LTE**: B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/ B30/B38/B39/B40/B 41/B42/B43/ B46/ B48/B71
Bandwidth	**5G NR**: DL 3.4Gbps, UL 350Mbps **LTE Cat20**: DL 2.0Gbps, UL 150Mbps **HSPA+**: DL 42Mbps, UL 5.76Mbps
Power	< 23dBm
Sensitivity	<-97dBm
Wi-Fi Specification	
Module	IEEE802.11b/g/n, 2.4G, AP mode, Station mode (Optional) IEEE802.11ac, 5.8G, AP mode, Station mode (Optional)

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Frequency	IEEE802.11b/g: 54Mbps IEEE802.11n: 300Mbps IEEE802.11ac: 866Mbps
Bandwidth	2xDI, 1xDO
Security	WEP, WPA, WPA2 encryption, WPS (Optional)
Power	26dBm (11b), 21dBm (11ac/MCS7/HT40), 20dBm (11ac/MCS9/HT80)
Sensitivity	<-72dBm@54Mbps
Hardware System	
CPU	Industrial-grade 32-bit communication processor
Flash	Nor flash 16MB NAND flash 128MB
DDR3	512MB
Interface	
WAN	1x1000M ETH port, auto adapt MDI/MDIX, built in 1.5KV ESD
LAN	4x1000M ETH port, auto adapt MDI/MDIX, built in 1.5KV ESD
Console	1 x RS232, Built in 15KV ESD Data bit: 5, 6, 7, 8 Stop bit: 1, 1.5 (Optional), 2 Check: NONE, ODD, EVEN, SPACE (Optional) and MARK (Optional) Baud rate: 2400~115200bits/s
Indicators	"PWR", "SYS", "2.4G","5.8G", "Online", "Signal"
Antenna	**Cellular**: 4xSMA female, characteristic impedance 50 ohms **WIFI**: 2xSMA male, characteristic impedance 50 ohms
SIM/UIM	Standard drawer type (2xSIM slot), 1.8V/3V SIM/UIM, 15KV ESD protection
Power	2.5mm DC interface built-in power reverse protection
TF Card	Micro SD card interface
Reset Button	Through this button, the parameter configuration can be restored to the factory
Power Supply	
Standard	DC12V/1.5A
Range	DC9-36V
Consumption	<1.2A(12V)
Physical Properties	
Shell	Metal shell, IP30
Size	244x135.5x35.8 mm (Does not include antenna and mounting parts)
Weight	980g

Others

Operating Temperature	-35~+75°C (-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Relative Humidity	95% (No condensation)

Dimension

Ordering Information

PART NO	DESCRIPTION
LA-IR100NR	Cellular (5G NR) 4GE LAN, 1GE WAN, 1xRS232/RS485, 2xDI, 1xDO, 2xSIM slot and 2.4GHz/5.8GHz WIFI support

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Specifications & design are subject to change without prior notice.

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