

LA-IR130NR

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

2 Micro-SIM slot & 2.4GHz/5.8GHz WIFI Support



Overview

LA-IR130NR is a wireless router for the Internet of Things, which uses public 3G/4G/5G networks to provide users with wireless long-distance big data transmission functions. Provide 1xRS232,1xRS485,1xLAN and 1xWAN/LAN port to achieve transparent data transmission and routing function. The product has been widely used in the M2M industry in the IoT industry chain, such as smart grid, smart transportation, smart home, supply chain automation, industrial automation, and other fields.

Features

Industrial-grade Design

- High-performance industrial-grade wireless module
- High-performance industrial-grade 32-bit communication processor
- Using Metal shell, protection grade IP30.
- 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 Interface
- Provide standard wired WAN port (support standard PPPOE protocol)
- Plug and Play
- Multiple working mode options Configuration and maintenance interface
- Support DIN rail and wall-mounting installation
- Support local and remote WEB mode or CLI mode

High Performance

- Multiple WAN connection methods, include static IP, DHCP, PPPOE, DHCP-4G/5G
- 3G/4G/5G and wired WAN dual link backup
- VPN client PPTP/L2TP/IPSEC
- VPN sever PPTP/L2TP/IPSEC
- Remote management SYSLOG/SNMP/TELNET/SSH/HTTPS
- Support local upgrade and remote upgrade
- Import and export configuration files
- NTP/Built in RTC
- DDNS
- Support VLAN, MAC address clone and PPPOE server
- WIFI Support 802.11b/g/n/ac. Support AP/AP Client/Bridge mode
- WIFI Support WEP, WPA, WPA2 and other encryption methods
- Support Private APN SIM card
- Support APN/VPDN
- Support DHCP server and DHCP client, NAT, DMZ, QOS
- Support TCP/IP, UDP, FTP (Optional), HTTP and other network protocols
- Support SPI firewall, VPN pass through, ACL, URL filter
- Support IPV6/IPV4, 5G LAN
- Support lock frequency, lock resident
- Support EOIP, bridge mode, VxLAN, virtual IP, GRE/TAP, etc.
- Support traffic statistics, VLAN management, and VLAN division

Specification

Product	Standard Version	5G RedCap Version
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/B41/B42/B43/B46/ B48/B71	5G NR: N1/N3/N5/N8/N28/N41/N78/N79 LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41
Bandwidth	5G NR: DL 3.4Gbps, UL 350Mbps LTE Cat20: DL 2.0Gbps, UL 150Mbps HSPA+: DL 42Mbps, UL 5.76Mbps	Downlink: 226Mbps Uplink: 120Mbps

Power	< 23dBm
Sensitivity	<-97dBm
Wi-Fi Specification	
Module	IEEE802.11b/g/n, 2.4G, AP mode IEEE802.11ac, 5.8G, AP mode
Frequency	IEEE802.11b/g: 54Mbps IEEE802.11n: 150Mbps IEEE802.11ac: 433Mbps
Security	WEP, WPA, WPA2, WPS
Power	26dBm (11b), 21dBm (11ac/MCS7/HT40), 20dBm (11ac/MCS9/HT80)
Sensitive	<-72dBm@54Mbps
Hardware System	
CPU	Industrial-grade 32-bit communication processor
Flash	32MB
DDR3	512MB
Interface	
WAN	1x10/100/1000M Ethernet (RJ45), Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection Remarks: Can be used as LAN port
LAN	1x10/100/1000M Ethernet (RJ45), Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Console	1xRS232/RS485, Built in 15KV ESD electromagnetic isolation protection 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	"WIFI", "Online", "PWR", "SYS"
Antenna	Cellular: 4 standard SMA female antenna interfaces, characteristic impedance 50 ohms WiFi: 1 standard SMA male antenna interfaces, characteristic impedance 50 ohms Cellular: 2 standard SMA female antenna interfaces, characteristic impedance 50 ohms WiFi: 1 standard SMA male antenna interfaces, characteristic impedance 50 ohms
SIM/UIM	Standard drawer type user card interface Support 1.8V/3V SIM/UIM card Built-in 15KV ESD protection Support Micro-SIM*2 card and eSIM
Power	Terminal power socket
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 106x76x23.5mm (Does not include antenna and mounting parts)

Weight 285g

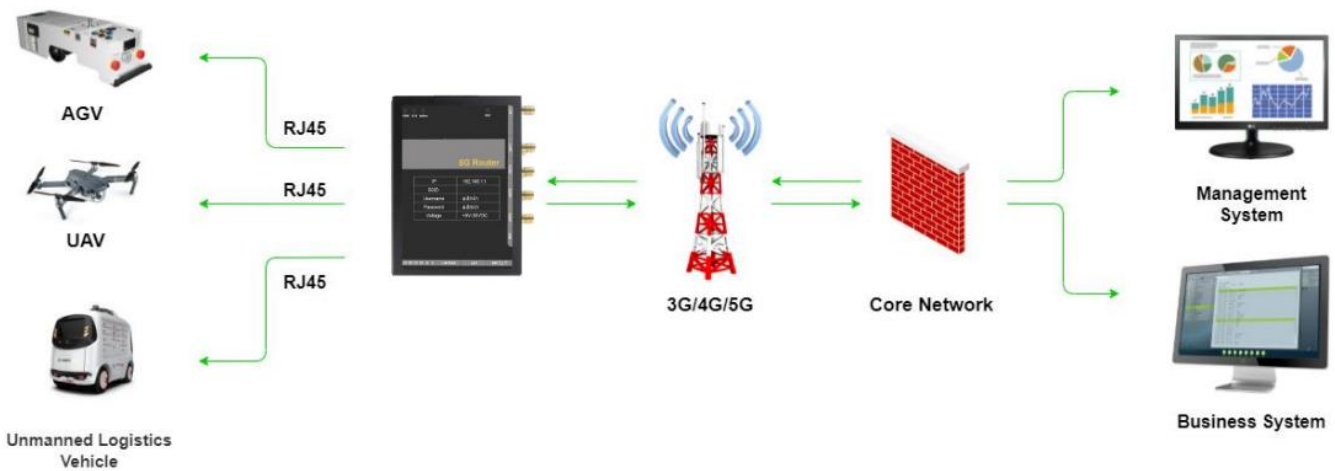
Others

Operating Temperature -35~+75°C (-31~+167°F)

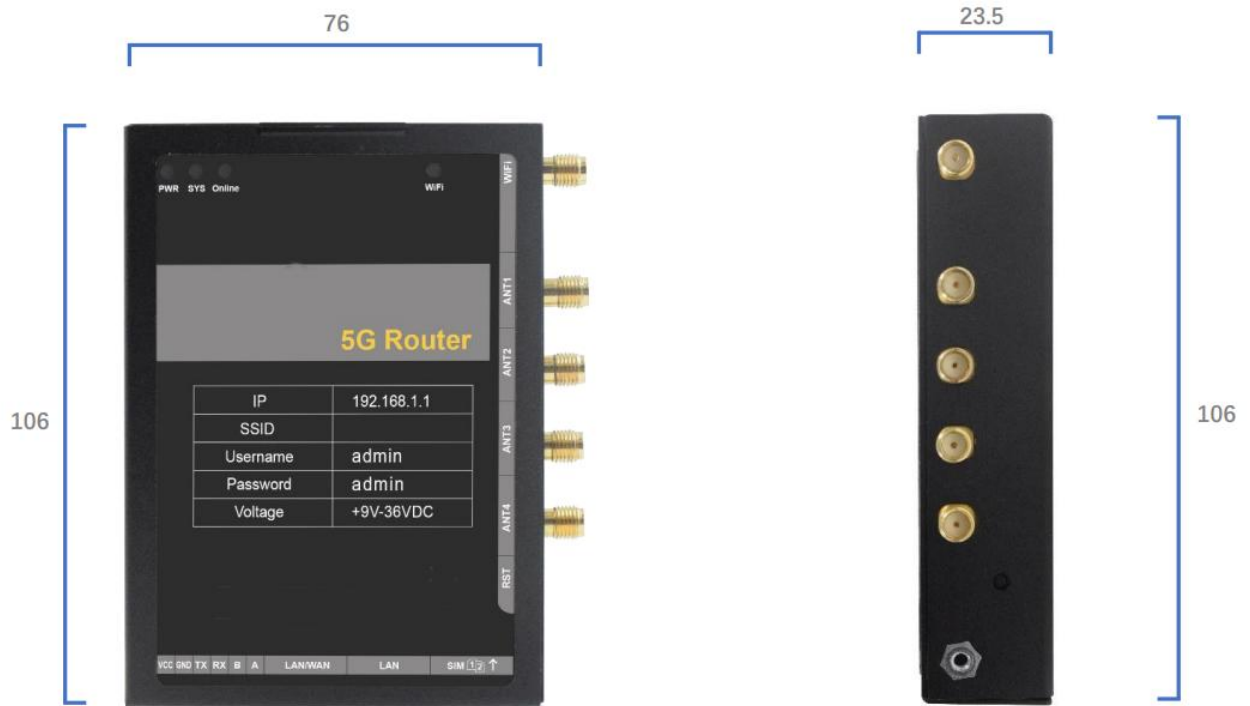
Storage Temperature -40~+85°C (-40~+185°F)

Relative Humidity 95% (No condensation)

Application



Dimension



Note: 5G Redcap version provide 2 cellular antennas

Ordering Information

PART NO	DESCRIPTION
LA-IR130NR (Standard)	Cellular (5G NR) 1GE LAN, 1GE WAN, 1xRS232/RS485, 2 Micro-SIM slot and 2.4GHz/5.8GHz WIFI support
LA-IR130NR (5G RedCap)	Cellular (5G RedCap) 1GE LAN, 1GE WAN, 1xRS232/RS485, 2 Micro-SIM slot and 2.4GHz/5.8GHz WIFI support



<https://www.lanaotek.com>



Specifications & design are subject to change without prior notice.

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