Winsonic®

NE22007-104111

Multi-port 5 Ethernet ports 4G Router, 4G LTE CAT4 high-speed network



The NE22007-104111 series products are IoT wireless routers that integrate 4G networks, virtual private networks, and other technologies. Utilizing 4G wireless wide area networks and Wi-Fi wireless local area networks, these devices ensure uninterrupted access to various networks. With comprehensive security and wireless service features, they provide users with high-speed and stable data transmission channels.

- Supports WLAN (optional)
- Supports 5 Ethernet ports
- Supports desktop installation
- Supports wired and wireless backup
- Supports efficient completion of large-scale device network deployment
- Industrialized design, capable of withstanding challenging conditions
- Supports 4G LTE CAT4 high-speed network, optional 1.8GHz dedicated network
- Supports Linux OpenWrt system, facilitating user secondary development, and providing comprehensive secondary development guidelines
- Supports various VPN functions: PPTP, L2TP, IPSEC, OPENVPN, GRE, GRETAP, Vxlan, etc
- Supports SNMP and StarLink STAR DEVICE MANAGER StarCloud platform, enabling efficient remote centralized network management

Technical Parameters

Hardware Performance	
Memory	128MB
FLASH	16 MB (expandable to 32MB).
WIFI (optional)	2.4G supports 802.11b/g/n, with a maximum speed of 150Mbps
Network Support	Industrial-grade 4G module, supports seven-mode networks
System Time	Time synchronization using NTP technology, with built-in RTC
Interfaces	
WAN port	1 个 WAN port
LAN port	4 (10M/100M adaptive MDI/MDIX ports).
SIM card interface	1 slot (drawer-type card slot, supporting 1.8V/3V SIM/UIM cards)
Reset	1 reset button
Antenna interface	2 ports 3G/4G antenna, 50-ohm impedance, SMA female head interface
	1 port 2.4G antenna, 50-ohm impedance, SMA male head interface
DC power	1 DC power socket (2.1mm inner core)
Console	1 port (5-pin 3.5mm pitch connector, 1 RS232/1 RS485)
Indicators	6 power and status indicators (NET, PWR, WIFI, signal 1, signal 2, signal 3)
Power Characteristics	
power	External power adapter (12V 1A)
Operating voltage	Wide power input DC 5~36V (expandable to 5-60V)
Standby power consumption	150~230mA@12V DC
Operating power consumption	250~310mA@12V DC
Operating Conditions	
Operating temperature	-35~+75℃ (-31~+167℉)
Storage temperature	-40~+85℃ (-40~+185℉)
Operating humidity	5%~95% (non-condensing).
Device ventilation	Natural heat dissipation, no noise

Physical Characteristics

Enclosure	Full metal enclosure
Dimensions	Length*Width*Height:150*90*28mm (excluding antenna and installation accessories)
Installation method	Desktop placement, wall mounting
weight	Net weight: 0.35KG (excluding antenna and installation accessories)
	Gross weight: 0.68KG (with accessories and packaging box)

Device Safety and Reliability

Safety and reliability	Reverse polarity protection, overvoltage protection, overcurrent protection; Ethernet interface built-in 1.5KV electromagnetic isolation protection; RS232/RS485 interface built-in 15KV ESD protection; SIM/UIM card interface built-in 15KV ESD protection
Protection level	IP30
Certification	Compliant with CCC, RoHS
MTBF	≥ 100,000 hours

Software Features

Network access	Supports APN VPDN
Access authentication	Supports CHAP/PAP authentication
Network mode	GSM/GPRS/EDGE, LIMTS/HSPA+/EVDO/TD-SCDMA/TD-LTE/FDD LTE
LAN protocol	Supports ARP, Ethernet
WAN protocol	Supports static IP, DHCP, PPPoE, PPP
IP Applications	Supports Ping, Trace, DHCP Server, DHCP Relay, DHCP Client, DNS relay, DDNS, Telnet
IP routing	Supports routing
NAT function	Supports network address translation

Network Security

Firewall	Full state packet inspection (SPI), prevention of denial of service (Dos) attacks, filtering of multicast Ping packets, access control lists (ACLs), content URL filtering, port mapping, virtual IP mapping, IP-MAC binding
Data security	IPsec VPN/L2TP/PPTP/GRE/OPEN VPN/CA certificate

Reliability

Backup function	Supports link backup

Link online monitoring	Sends heartbeat packets for detection and automatically reconnects when disconnected
Embedded watchdog	Equipment runs self-checking technology, and equipment automatically repairs faults
WLAN (optional)	
Protocol standards	IEEE 802.11b/g/n
speed	Supports 150Mbps
Security features	Open system, shared key, WPA/WPA2 authentication, WEP/TKIP/ AES encryption
Working mode	AP, Client operating mode
Transmission distance	100m (actual transmission distance depends on the environment)
Smart Features	
Integrated DTU function	Supports TCP, UDP transparent transmission mode, TCP Server mode, supports Modbus RTU to Modbus TCP bridge, supports DCUDP, DCTCP mode
Network Management	
QoS management	Supports bandwidth limitation, IP rate limiting
Configuration method	Supports telnet, web, ssh, and console configuration methods
Upgrade method	Supports web upgrade, FOTA upgrade method
Log function	Supports local system logs, remote logs, serial port output logs
Network management function	Supports StarLink STAR DEVICE MANAGER StarCloud platform, batch management
Simple network management function	Supports SNMP v1/v2/v3, supports SNMP TRAP function
Traffic management	Supports traffic threshold setting, supports traffic statistics and traffic alert functions
Maintenance Tools	Ping, route tracking
Status Query	System status, modem status, network connection status, route status

Product Dimensions

单位:mm

unit:mm

