Product Specification

LTE DTU Router

1. Description

The router uses the latest hardware system platform and uses the Linux software system to develop a better performance IoT wireless communication router. Adopting industrial-grade design standards, it is mainly used for data transmission services of industrial users. The product uses a high-performance 32-bit embedded processor, embedded in a complete TCP / IP protocol stack, and provides RS serial port and 10/100M Ethernet interface. Integrated IO terminal block with serial or GPIO interface. The serial port provides RS-232 and RS-485 transparent transmission modes respectively, supports VPN communication functions, adopts IPSec/Openvpn/PPTP/L2TP/GRE/VPN technology, enterprise-level VPN tunnel technology and firewall technology to ensure high security industry. Data security, automatic online detection, real-time dynamic refresh of network status, keeping the link unblocked. Support WEB/Telnet/Console multiple configuration modes, support telnet/ssh login, where users are faced with WEB graphical management configuration interface, management is convenient and simple.

2.Main features

- Support all device intranet transmission DTU data, management interface and application connection, no longer worry about not having public IP address (if you need to build a public IP server, please explain to the customer service in order to obtain the server software).
- Full support for a new generation of IPV6 network technology.
- Support CPU load, memory usage, traffic monitoring, network connection monitoring and other functions, and draw data charts.
- Support multiple network mode access, support APN, VPDN and other private network access
- Support CELL, WIFI client, wired PPPOE, wired DHCP, wired static IP, wired or CELL IPV6 access network.
- Support CELL/wired/WIFI client link hot backup, three-line priority hot standby or the same priority fast hot backup.
- Support CELL / wired / WIFI client link bandwidth overlay.
- Support wireless network module automatic real-time function.

- Support multiple intranet protocols to implement intranet WEB/telnet/ssh access and management without public IP, and realize application connection of router subordinate devices.
- Support WEB SSL encrypted access.
- Support ICMP detection to ensure that the router is reliable online.
- Support various VPN protocols (IPSEC V1 V2, PPTP, L2TP, GRE, IPIP, OpenVPN), each VPN supports multiple channels.
- Support RS232/RS485 serial port DTU data transparent transmission function, support DTU server and client, support heartbeat package, support ID function, support remote serial port function, support remote MODEM send and receive AT command.
- The second DTU realizes remote connection of the wireless network module, and transmits and receives the remote router module function.
- Two DIO control pins supporting Modbus TCP/RTU.
- Support GPS global positioning system location information reporting function.
- Support SMS commands, send and receive text messages, SMS history records and other functions.
- Support network SMS function.
- TF card design to support network sharing and storage applications.
- Supports SNMP V1, V2, V3, and router management is possible.
- Support VRRP router backup.
- **Supports dynamic routing protocols such as RIPV2, OSPF, OSPFV6, and BGP.**
- Support Wifidog to achieve wifi authentication
- Support Nodogsplash to achieve WIFI local authentication.
- Supports independent implementation of QOS flow rate management control for different interfaces.
- Support LAN, WAN conversion VLAN function.
- Supports NTP client synchronization network time and provides NTP network time service function.
- Support remote log function.
- Support parameter backup and restore functions.
- MD5 compares firmware security and reliability functions when firmware update is supported.
- Supports firewall port mapping, port forwarding, access control, etc., and supports detailed firewall list functions.
- Support router local WEB access control.
- Support WIFI wireless network timing switch function.
- Support dynamic DNS function.
- Software and hardware reliability design ensures that the router runs reliably online.
- Support telnet ssh CLI setting commands.

3. Specifications

Wireless	
4G module	Industrial 2G/3G/4G module
	2G3G GSM/GPRS/EDGE,3G WCDMA HSDPA/HSUPA/HSPA/HSPA+/DC-HSPA+ 4G FDD LTE 4G TD-LTE
WIFI	
standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps IEEE802.11n : 300Mbps
Encryption	WPA/WPA2
Transmit power	20dBm
Receiving sensitivity	<-72dBm@54Mbps
Hardware	
CPU	32 digital
FLASH	128Mbit
SDRAM/DDR	DDR2 1024Mbit
Ports	
WAN	1 10/100M , MDI/MDIX , Built-in 1.5KV electromagnetic isolation protection
LAN	4 10/100M, MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Serial port	Terminal block serial port, support hardware flow control (optional), Serial port parameters: Data bits: 5, 6, 7, 8 Stop bits: 1, 2 Calibration: no parity, even parity, odd parity Serial port speed: 2400~115200bit/s
Antenna Port	2 WIFI 1CELL
6pin	2pin power in or out

	2pin series 2pin DIO control
Indicators	SYS x1 CELL x1 SIGNAL x1 VPN x1 WIFI x1 LAN x4 WAN x1
SIM	2FF，support 1.8V/3V SIM/UIM 卡，inbuilt 15KV ESD
Power	Standard DC Terminal block power connector
RESET	1
TFcard	1
Electricity	
Power	DC 12V/1A
Voltage	DC 5~36V DC 5~48/58V
Consumption	<450mA(12V)
Mechanical	
Housing	Metal housing with protection class IP30. The housing and system are safely isolated, making them ideal for industrial field applications.
Dimension	161x95x25mm
Weight	460g
Environment	
Working temp	-20~+70ºC
Storage temp	-40~+85ºC
Humidity	95%