

GOSUNCN Industrial 3G/4G Router

R800

IoT Wireless Communication Router for Industry

Product Introduction

R800 3G/4G IoT industrial wireless communication router takes the advantage of public 4G network to provide data transmission through long distance. Its 32-bit communication processor and industrial grade wireless module help it to achieve great performance. It uses embedded RTOS (Real Time Operation System) as its software platform, it has 1 RJ45 console port embedded RS232 (or RS485/RS422) and 2 Ethernet LAN ports, also, it can be connected to serial device or Ethernet device to activate data transparent transmission and router function.

It is widely applied in M2M area of IoT industry chain, such as smart power grids, ITS (Intelligence Transportation System), smart home, finance, mobile POS terminal, supply chain automation, industrial automation, intelligent building, fire control, public security, environment protection, weather monitoring, smart medical treatment, telemetry, space exploration, agriculture, forestry, water, mine and petrochemical field.

Product Solution



Municipal Engineering

Public bike management system plan; rail transit wireless networking solution



Industrial Interconnection

Tower crane wireless monitoring plan; DTU and configuration software communication solution



Smart Medical Treatment

Smart network, Wi-Fi coverage, cyber self-service terminals



Water Conservancy and Disaster Reduction

Wireless monitoring solution in water quality



Petrol and Petrochemical

Solution in bulk petrol refueling management system; wireless monitoring application in oil field



ITS (Intelligence Transportation System)

Wireless smart parking guidance system; wireless video monitoring solution in traffic situation



Finance and Tax Control

Wireless networking solution in bank ATM device and self-service inquiry terminal



Business Networking

Wireless networking solution in self-help picking-up express and intelligent charging equipment



Public Service

Wireless monitoring in scenic region and pipeline system



Environmental Monitoring

Wireless monitoring application in ambient noise; remote monitoring solution in air quality



Smart Power Grids

Digital/Intelligent communication solution in transformer substation; state inspection solution in power transmission line; networking solution in wind power plant



Smart Agriculture

Monitoring system solution in agriculture greenhouse

Network Topological Graph



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Product External View



Wireless Parameters

Item	Description
Wireless	Industrial grade wireless module and Router chipset
4G Technical Standard & Frequency Band	R800-J(Janpan & Korea): •LTE FDD(CAT3): B1/3/5/8/9/18/19/21 • WCDMA: B1/5/6/8/19 R800-U (North America): •LTE FDD(CAT4): B2, B4, B5, B12, B17 , Uplink 50Mbps / Downlink 150 Mbps • WCDMA: B2, B5; Rx diversity, Uplink 5.76Mbps / Downlink 42Mbps , supported by AT&T, TMO R800-C (China): • LET FDD(CAT4): B1, B3 • LTE TDD: B38, B39, B40, B41 • CDMA : BC0 • TD-SCDMA : B34, B39 • GSM : B3, B8
Wi-Fi Parameter(optional)	Support 802.11b/g/n, 2T2R 2.4 GHz with 300 Mbps PHY data rate Support Wi-Fi AP、 AP Client , Repeater , Repeater Bridge and WDS work mode (optional) Support WEP,WPA , WPA2 way of encryption, support RADIUS certification, MAC adress filter function
Theory Bandwidth	LTE FDD(CAT4): Max 150Mbps(DL)/Max 50Mbps(UL) LTE FDD(CAT3): Max 100Mbps(DL)/Max 50Mbps(UL)
Max. Transmitting Power	LTE: 23 ±2.7dBm (Power Class 3); TD-SCDMA : 24 +1/-3dBm ; GSM900 : 33±2dBm (Power Class 4); GSM1800: 30±2dBm (Power Class 1) ; CDMA:24 ±1dBm @ All up bits
GPS function(optional)	Support GPS function by independent GPS chipset

Hardware Parameters

Item	Description
CPU	Industrial grade 32-bit communication processor
FLASH	16MB
RAM	64MB



Interface Parameters

Item	Description
LAN	2 10/100M Ethernet interface (RJ45), MDI/MDIX auto-negotiation, embedded 15KV electromagnetism isolation blocking
Console	1 console RJ45 socket ,embedded RS232 interface (or RS422/RS485), embedded 15KV ESD protection : •Data bit: 5, 6, 7, 8 bit •Stop bit: 1, 2 bit •Calibration: no calibration, odd/even parity •UART speed: 300~115200bits/s
Indicator Light	"PWR", "VPN", "SYS", "PPP", "BAK", "SIG", "LAN1", "LAN2"
Antenna	ANT1 : 3/4G AUX, norm SMA negative antenna interface, characteristic impedance is 50 ohm ANT2 : WIFI ,negative antenna interface, characteristic impedance is 50 ohm (optional) ANT3 : GPS/WIFI,norm SMA negative antenna interface, characteristic impedance is 50 ohm(optional) ANT4 : 3/4G MAIN, SMA negative antenna interface, characteristic impedance is 50 ohm
SIM/UIM Card	Normal drawer type card interface (1.8V/3V SIM/UIM card), embedded 15KV ESD protection
Power Supply	Normal 3-core power socket, embedded power reverse-phase protection and overvoltage protection
Reset	Revert ROUTER parameters to factory ones

Power Parameters

Item	Description
Reference Power Supply	DC 12V/1A
Power Supply Range	DC 6~35V
Communication Current	<450mA (12V)

Mechanical Parameters

Item	Description
Shell	Metal shell, IP 30 level of protection, safe isolation from inner system, suitable for industrial field application
Overall Dimension	118x100x22 mm (antenna and installation parts are not included)
Weight	About 357g

Others

Item	Description
Operating Temperature	-25~+65°C (-13~+150°F)
Extreme Operating Temperature	-30~+75°C (-22~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Relative Humidity	95% (no condensation)

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