

# 4G Full Netcom 300M WiFi Outdoor Wireless Router



## Product Highlights

- User-friendly IP65 windproof, rainproof, dustproof, and sun protection design, easily adaptable to various outdoor harsh environments.
- Independent wireless router processing chip and 4G processing chip, each performing its own function, dual-channel concurrent operation, ensuring a stable and user-friendly system.
- Supports 4G network access for telecom, China Unicom, China Mobile, and radio and television networks, supports APN/VPDN connections.
- Supports router mode, AP mode, and 4G LTE wireless access, flexible networking, adaptable to various complex scenarios.
- Provides 802.11b/g/n WiFi 300M wireless access, with high-gain antennas, covers up to 30 meters in open spaces without obstruction; also provides 10/100Mbps wired access, capable of handling up to 16 users in standby mode.

## Hardware Features

Description	Specification
Model	HR-R102
Clock Frequency	575MHz
Memory	8MB
Flash	2MB
Wireless Technology	802.11b/g/n 300Mbps MIMO
Device interface	WAN/LAN conversion *1 10/100Mbps adaptive Ethernet port LAN *1 10/100Mbps adaptive Ethernet port Nano-SIM card DC power supply interface, suitable for power plug with outer diameter of 5.5mm, inner diameter of 2.1mm, and length of over 9.5mm
Button	RESET, press and hold for 5 seconds to restore factory settings
Indicator	PWR、LAN 、WiFi、WAN/LAN、4G/3G
Antenna	Built-in 2.4G 2dBi FPC antennas *2 Built-in 4G LTE 3dBi steel plate antennas *2
Power	DC 12V/1A, positive on the outer side and negative on the inner side.
Structure Information	Product Dimensions: 173*90*57mm Packaging Dimensions: 192*105*100mm Product Net Weight: 0.17KG Product Gross Weight: 0.4KG
Packing Information	Carton Dimensions: 590*210*420mm Packing Quantity: 20PCS Packing Weight: 8.62KG
Package Contents	Router 1pcs, AC Adapter 1pcs, Manual 1pcs, Ethernet Cable 1pcs, Metal clamp 1pcs
Installation	Wall Mount
Operating Temperature	-30~45°C
Storage Temperature	-40~70°C
Operation Humidity	5%~90%, non condensing
Storage Humidity	5%~95%, non condensing

## Hardware Features

Description	Specification
Frequency Range	802.11b/g/n:2.4~2.4835GHz
Channel	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Modulation	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16-QAM) 802.11n: OFDM (BPSK, QPSK,16-QAM, 64-QAM)
Transmission Rate	11b up 11Mbps,11g up 54Mbps,11n up 300Mbps
Receiver Sensitivity	11b: $\leq -90 \pm 1.5 \text{dBm}$ @1Mbps, $\leq -84 \pm 1.5 \text{dBm}$ @11Mbps 11g: $\leq -86 \pm 1.5 \text{dBm}$ @6Mbps, $\leq -69 \pm 1.5 \text{dBm}$ @54Mbps 11n 20MHz: $\leq -85 \pm 1.5 \text{dBm}$ @MCS0, $\leq -67 \pm 1.5 \text{dBm}$ @MCS7 11n 40MHz: $\leq -82 \pm 1.5 \text{dBm}$ @MCS0, $\leq -64 \pm 1.5 \text{dBm}$ @MCS7
Transmit Power	11b: $\geq 20 \pm 1.5 \text{dBm}$ @11Mbps 11g: $\geq 20 \text{dBm} \pm 1.5 \text{dBm}$ @54Mbps 11n: $\geq 20 \text{dBm} \pm 1.5 \text{dBm}$ @MCS7
Network Standard	LTE FDD/TDD
LTE-FDD	B1/B3/B5/B8(supporting hierarchical reception)
LTE-TDD	B34/B38/B39/B40/B41 (supporting hierarchical reception)
Transmission Rate	LTE FDD: Up 150Mbps(DL)/Up 50Mbps(UL) LTE TDD: Up 130Mbps(DL)/Up 30Mbps(UL)
Transmit Power	Class 3 (23dBm $\pm$ 2dB) LTE FDD Bands Class 3 (23dBm $\pm$ 2dB) LTE TDD Bands
Receiver Sensitivity	FDD B1: -99dBm (10M) FDD B3: -99dBm (10M) FDD B5: -100dBm (10M) FDD B8: -100dBm (10M) TDD B34: -98dBm (10M) TDD B38: -100dBm (10M) TDD B39: -98dBm (10M) TDD B40: -99dBm (10M) TDD B41: -99dBm (10M)

## Software Features

Description	Specification
Working Mode	4G/Router/AP
Number of connected users	16 Peoples
Management	The English web remote management/ Batch management based on the TR069 centralized management platform."
Status	-System Status/4G Status/Interface Status -User List -Black List
Network Configuration	-Network Configuration: Operating Mode (4G/Router/AP)/LAN/WAN -APN Settings
WiFi Settings	WiFi Switch/WiFi name/Encryption/WiFi password/ Hide WiFi/Wireless protocol/Wireless bandwidth/ Wireless channel/WiFi signal strength Used/Remaining/This month has been used/Today
Flow Assistant	Has been used/The end of the month/Monthly Package flow/Monthly settlement date/Flow control switch
System Management	-Managed Password -Local Time -Upgrade/Reset: Reset to defaults/Download backup configuration/Restore backup/Local Upgrade -System Log -Network Detection -Reboot: Reboot immediately/
Setup Wizard	System mode-WiFi

Product Structure Diagram

