![NetCommWireless logo]

3G Outdoor WiFi Router with Voice

The robust and weatherproof NetComm Wireless 3G Outdoor WiFi Router with Voice (NTC-30WV) is an all-in-one device that sits on the outside of a premises to deliver a powerful 3G broadband Internet and phone connection to homes, businesses and Machine-to-Machine (M2M) deployments in weak signal areas.

NTC-30WV
Specification Sheet

3G Outdoor WiFi Router with Voice
Overview

Rural and regional homes and businesses, remote commercial sites and metropolitan fringe districts located beyond the reach of fixed line infrastructure rely on mobile networks to access broadband Internet. Designed to optimise signal strength in weak signal areas, the NTC-30WV is positioned on the exterior of the premises to overcome distance limitations and geographical obstructions, and deliver high-speed 3G broadband, WiFi, Ethernet and phone connectivity.

QUICK FACTS

- Rugged outdoor router for deployments in remote environments and harsh industrial conditions

- Powerful 3G/HSPA+ modem for high-speed Internet connectivity reaching 21Mbps downlink and 5.76Mbps uplink

- Compatible with global mobile networks

- Withstands dust and extreme weather conditions - IP67 rated housing

- Features an 802.11n WiFi access point with 2x2 MIMO antenna technology to deliver indoor and outdoor Wi-Fi connectivity spanning up to 100 metres

- Connect a wired device using the Fast Ethernet (100Mbps) port which supports Power over Ethernet

- Create and install custom applications using the embedded Linux operating system

- Supports remote diagnostics, configuration and firmware upgrade capabilities

- Includes built-in VPN support for a secure connection over a public mobile network

- Make circuit switched phones calls using the RJ11 voice port

- Easy wall or pole mounting options

Designed to provide a complete communications solution, the NTC-30WV combines a mobile modem, router, wireless LAN access point, telephone adapter and powerful high gain antenna system in a single weather-resistant device that is easily mounted on an external wall or pole to deliver a fast and reliable Internet and phone connection.

EVOLVED HIGH-SPEED PACKET ACCESS (HSPA+)
The NTC-30WV offers an ideal alternative to dial-up. The device attaches to the outside of the premises to boost 3G/HSPA+ signal strength in low signal areas and locations without fixed-line (ADSL/Cable/Fibre) broadband connectivity. The embedded 3G modem delivers data download rates of up to 21Mbps (HSPA+) which can be shared via a secure and reliable WiFi and Ethernet network.

MULTIPLE DEVICE CONNECTIVITY
The device creates an expansive indoor and outdoor WiFi network. With access to an integrated Wireless LAN access point and MIMO antenna technology, a reliable 802.11n WiFi signal reaching wireless N speeds of up to 300Mbps is transmitted over a radius of up to 100 metres from the router.

EXTREME OUTDOOR DURABILITY
The sturdy, water and dust proof NTC-30WV is IP67 rated and proven to withstand severe environmental conditions including extreme temperatures and water exposure to ensure durability and longevity in harsh remote and isolated climates. The device can be powered using Power over Ethernet for those installations where outdoor power isn't available.
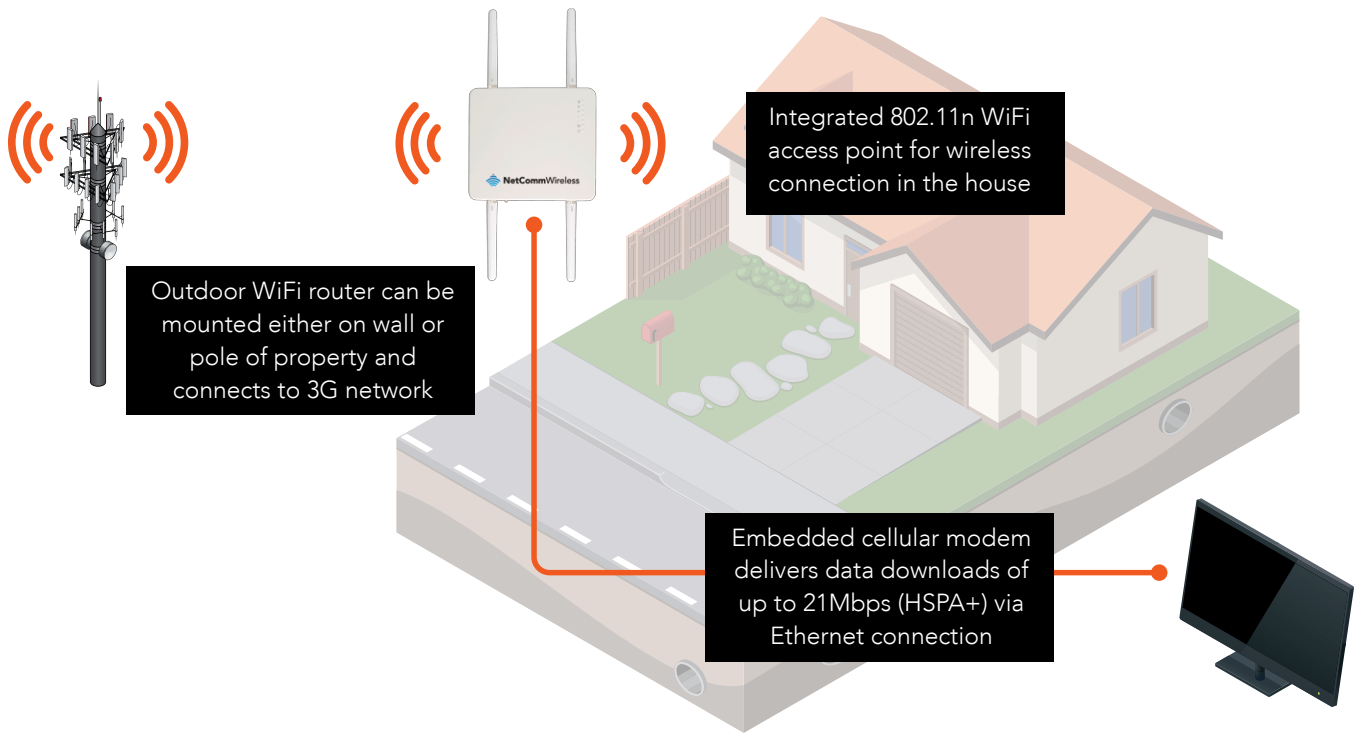
ADVANCED REMOTE MANAGEMENT
Designed to provide remote diagnostics, configuration and firmware upgrade capabilities, the NTC-30WV allows a range of issues to be diagnosed and resolved over the air without requiring a technician onsite to upgrade firmware or to check the network connection status, WiFi and device settings.

Application Example
Mobile broadband connectivity to remote homes

Integrated 802.11n WiFi access point for wireless connection in the house

Outdoor WiFi router can be mounted either on wall or pole of property and connects to 3G network

Embedded cellular modem delivers data downloads of up to 21Mbps (HSPA+) via Ethernet connection

---

Device Features
At a glance

1. High performance 3G antenna connectors
2. WiFi antenna connectors
3. SIM card slot (for USIM/SIM 2FF format)
4. Mini USB 2.0 port
5. Reset button
6. Power connector
7. Phone port
8. Fast Ethernet LAN port (supporting Power over Ethernet)

Package Contents
What's in the box?

1 x NetComm Wireless 3G Outdoor WiFi Router with Voice (NTC-30WV)

2 x 3G Antennas

2 x WiFi Antennas

1 x 10m DC power cable (open ended)

1 x Pole mounting kit

1 x Wall mounting kit

2 x Cable glands

1 x Ferrite core

1 x WiFi security card

1 x Quick start guide

Technical
Specifications

MEMORY
- 128MB DDR SDRAM | 256MB NAND Flash

OPERATING SYSTEM
- Embedded Linux 2.6

PEAK DATA SPEED
- Downlink: 21Mbps (HSDPA Cat. 14); Uplink: 5.76Mbps (HSUPA Cat. 6);

CELLULAR BANDS
- UMTS/HSDPA/HSUPA: 850/900/2100/1900 MHz
- GSM/GPRS/EDGE: 850/900/1800/1900 MHz

WIRELESS LAN
- IEEE 802.11b/g/n 2T2R
- Frequency: 2.4 ~ 2.438GHz
- Peak Data Rate: Max 300 Mbps (MIMO, WPA2)
- Wireless Security
  - WEP 64-bit
  - WEP 128-bit
  - WPA
  - WPA2
  - WPAPSK
  - WPA2-PSK
  - TKIP
  - AES
  - Multiple SSIDs

CONNECTIVITY
- 1x (RJ45) Ethernet 10/100Base-TX Port with AutoMDIX
- 1x Mini USB 2.0 Console Port
- 1x DC-in Port
- 1x FXS (RJ11) Phone Port

ANTENNA INTERFACES
- 2x N-Type Cellular (3G)
- 2x N-Type WLAN (MIMO)

SIM CARD READER
- Sealed Tray Reader
- Push-Button-to-Release
- Mini USIM/SIM Format

LED INDICATORS
- Power
- Data Carrier Connection
- Signal Strength

REMOTE MANAGEMENT
- LWM2M
- TR-069
- SNMP v1/v2
- Web-based User Interface (HTTP)
- Telnet / SSH
- Event notification feature providing ability to send alerts to SMS, E-mail, TCP/UDP server when certain system events occur

LAN
- DHCP Server/Client/Relay
- Static Route

WAN
- WWAN (Cellular)
- PPPoE
- PPP (PAP/CHAP)

ROUTING & POSITIONING
- Static
- RIP (v1/v2)
- VRRP
- Dynamic DNS
- NAT
- DMZ
- Data Stream Manager providing ability to create mappings between input and output ports and perform required translation or data processing by each virtual tunnel

TELEPHONY
- Circuit-Switched Voice via Standard/Cordless Analogue Telephone

FIREWALL & SECURITY
- SPI Firewall
- Anti-DoS

VPN
- IPSec
- PPTP
- GRE
- OpenVPN

ENVIRONMENT
- Normal Operating Temperature: -20°C ~ +65°C
- Extended Operating Temperature: -25°C ~ +75°C (with Performance Deviations)
- IP-67 Rated Housing (sealed against water and dust)

POWER SUPPLY
- DC In port: 8 ~ 28 V with external power supply
- Power over Ethernet using external PoE injector (not supplied)

POWER CONSUMPTION
- Standby Input Current: 110 mA @ 12V DC
- 3G Active Input Current: 300 mA @ 12V DC
- Maximum Input current: 560 mA @ 12V DC

DIMENSIONS & WEIGHT
- 255mm (L) x 240mm (W) x 80mm (D)
- ~2345g (including mounting and antennas)

MAXIMUM OUTPUT POWER ALOWED
- WLAN Module ERP = <20 dBm