

3G WiFi M2M Router with Voice

The NetComm Wireless 3G WiFi M2M Router with Voice (NTC-40WW) delivers fast and powerful 3G broadband Internet connectivity, enhanced networking and voice capabilities - making it ideal for emergency response, temporary offices and pop-up stalls.



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Overview

The NTC-40WV brings the power and performance of 3G to remote M2M applications that use voice and data content; and delivers a fast and reliable Internet and phone connection to construction site offices, market stalls and other temporary setups in areas with limited access to fixed-line infrastructure.

QUICK FACTS

- Powerful and flexible industrial cellular router platform supporting 3G
- Make normal voice calls using a standard analogue telephone
- Automatic failover to 2G/GSM/GPRS/EDGE
- Industrial features including a rugged enclosure, wide operating temperature range and wall mount options
- Install custom applications using the embedded Linux operating system and Software Development Kit (SDK)
- Fast Ethernet (100Mbps) connection for easy integration
- VPN support for establishing a secure connection over public cellular network using OpenVPN, IPsec, GRE, PPTP
- 802.11b/g/n WiFi access point with 2x2 MIMO antenna technology
- Native support for LWM2M, TR-069, SNMP, HTTP and Telnet
- System monitoring, remote diagnostics and configuration over the air, diagnostic log viewer via browser

The NTC-40WV is perfect for dynamic M2M applications that transmit data and voice over 3G networks. The device delivers fast throughput speeds, remote control and enhanced networking for the freedom to connect and manage virtually any device, anywhere.



TOTAL COMMUNICATIONS SOLUTION

Offers a new level of networking - featuring an Ethernet port for a high-speed wired connection, a built-in WiFi access point to connect wireless clients while also letting you make phone calls using a standard analogue phone.



CUSTOM SOFTWARE APPLICATIONS

The powerful processor delivers optimal performance and its embedded NetComm Linux OS and Software Development Kit (SDK) enables the installation of custom firmware to the onboard flash memory via the programming interface.

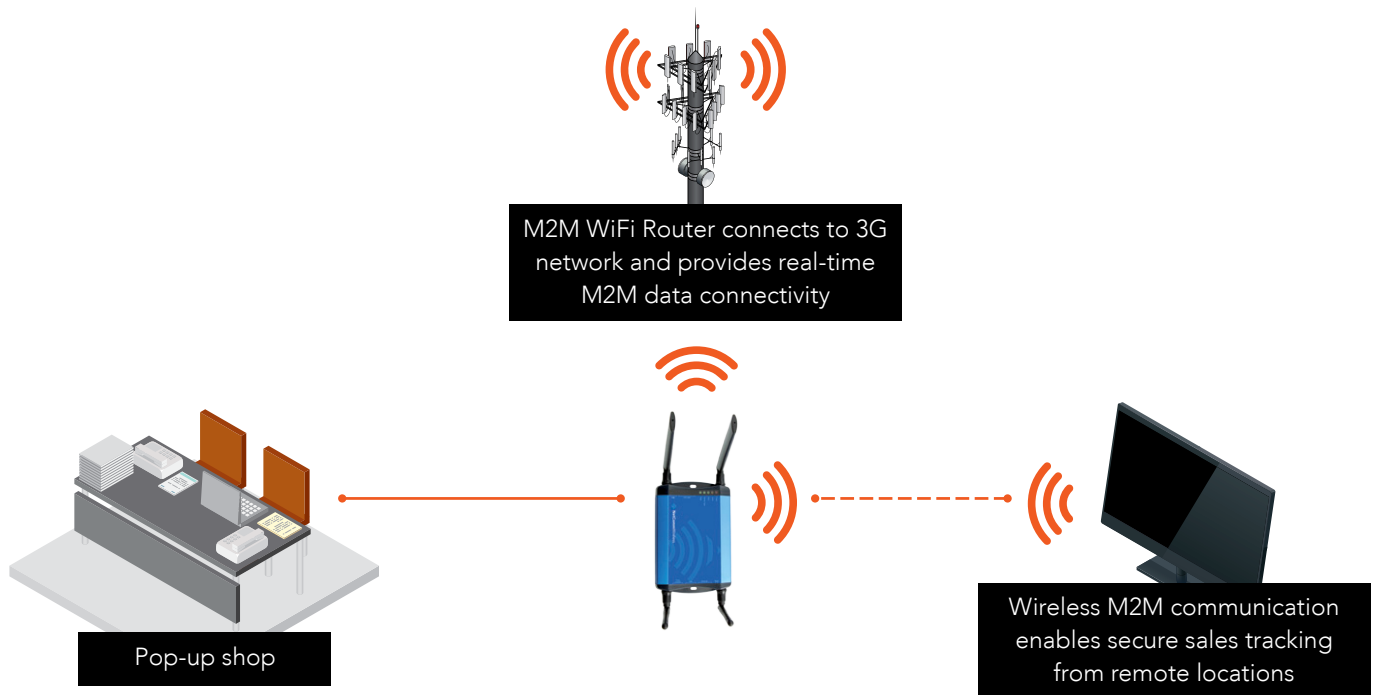


INDUSTRIAL-GRADE DURABILITY

Designed for rugged deployments, the NTC-40WV features a metal enclosure with multiple mounting options and a wide temperature tolerance to support remote and industrial applications. LWM2M and TR-069 supports the remote management of unmanned assets from any location and it provides VPN support for a secure connection over public networks.

Application Example

Mobile broadband connectivity to pop-up shop



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 SIM tray eject button
- 6 Power connector
- 7 Phone port
- 8 Fast Ethernet LAN port
- 9 Reset button

Package Contents What's in the box?



1 x NetComm Wireless 3G WiFi Router with Voice (NTC-40WV)



2 x 3G Antennas



2 x WiFi Antennas



1 x Ethernet cable



1 x Power supply



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
- WPA-PSK
- WPA2-PSK
- TKIP
- AES
- Multiple SSIDs

CONNECTIVITY

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

ANTENNA INTERFACES

- 2x SMA Cellular
- 2x Reverse SMA WLAN (MIMO)

SIM CARD READER

- Lockable Tray Reader
- Push-Button-to-Release
- Mini USIM/SIM Format

LED INDICATORS

- Power
- Network Service Type
- Tx/Rx Data Traffic
- 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)

POWER SUPPLY

- DC In port: 9 ~ 28 V

DIMENSIONS & WEIGHT

- 155mm (L) x 104mm (W) x 30mm (D)
- ~300g

MAXIMUM OUTPUT POWER ALLOWED

- WLAN Module ERP = <20 dBm



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