



NTC-400 Series

4G LTE Cat 6 Industrial IoT Router
with Dual Band Wi-Fi



Cat 6 4G LTE (300 Mbps) and dual band Wi-Fi for high speed applications

Three Gigabit Ethernet ports, a serial port, and a USB port for network flexibility

Integrated GPS compatible with all global systems for reliable tracking applications

I/O ports to read sensors or remotely control equipment such as lights, fans or pumps

Rugged industrial design with a metal housing and a wide temperature rating for harsh environments

Ignition sense capability and a wide input voltage range for vehicular applications





NTC-400



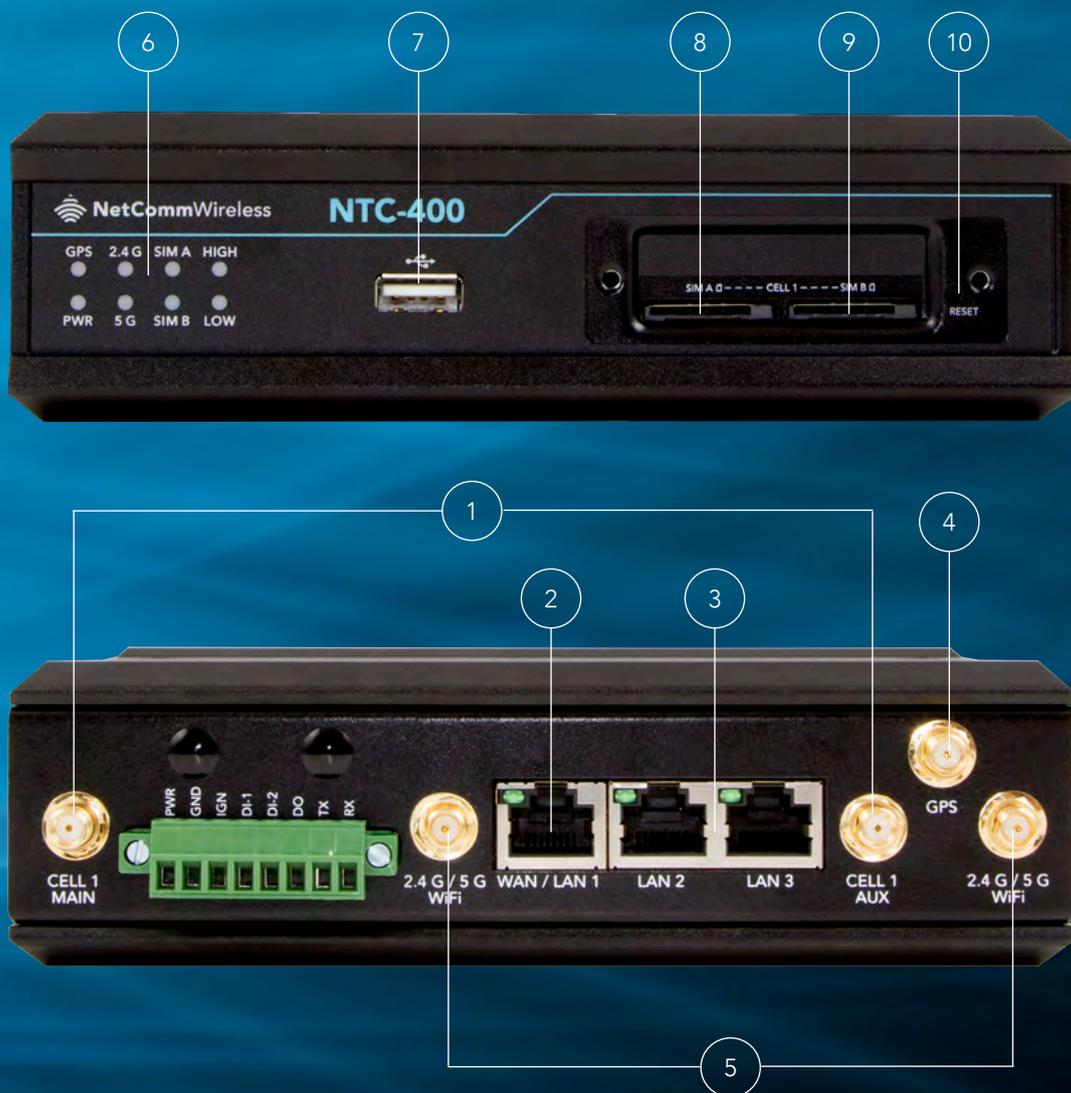
Wireless M2M communications has evolved

The low speed connectivity once used to read sensors and remotely control equipment is being replaced by **highly complex** bandwidth and processor intensive industrial applications.

Designed to power these new and innovative solutions, the NetComm Wireless NTC-400 creates **high speed** and **reliable data connectivity** where fixed line connections are either unavailable or not suitable for the application.

The NTC-400 creates **high speed dual band Wi-Fi hotspots** in public transport, **streams HD video** from multiple surveillance cameras simultaneously, tracks vehicles using **GPS**, **streams 4K/UHD video** to large digital displays, and supports countless other bandwidth-intensive **M2M applications** in real time.

Whether you are an end-user or a system integrator, you will benefit from the speed and power of the highly **adaptable NTC-400**.



Device features at a glance

- ① Cellular connectors
- ② Gigabit Ethernet WAN/LAN port
- ③ Gigabit Ethernet LAN ports
- ④ GPS connector
- ⑤ Wi-Fi antenna connectors
- ⑥ Status LEDs
- ⑦ USB Port
- ⑧ SIM card slot A
- ⑨ SIM card slot B
- ⑩ Reset button



Industrial-grade



Built to last

To endure harsh **industrial and automotive environments**, the NTC-400 features a robust enclosure made from a steel and extruded aluminium. Electrical components have been carefully selected to allow the NTC-400 to **operate at extreme temperatures** for many years without fail.

The NTC-400 supports an industry leading wide power input voltage range to accommodate challenging power scenarios including vehicle installations and solar power operated applications.

Extensive environmental and reliability tests have been completed to ensure that the device continues to operate under **extreme conditions of temperature, shock and vibration**. Testing ensures that the device will continue to operate on buses, trucks, heavy duty mining vehicles and other vibration prone environments.

The device also endures the extreme heat of an outdoor enclosure installed in full sun.

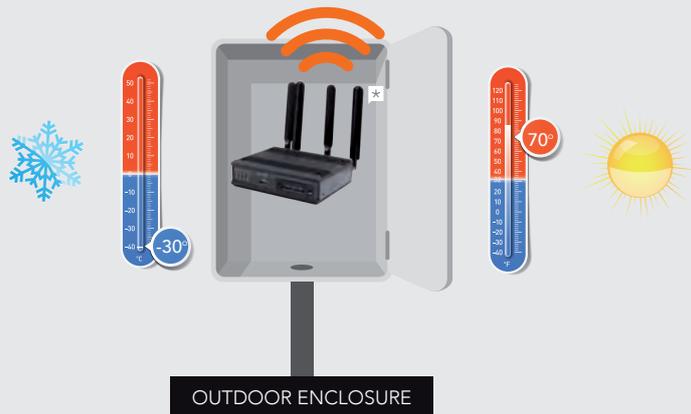


Outdoor enclosure installations

Need a 4G LTE router that is able to withstand the extreme temperature variations within an outdoor enclosure that is exposed to the elements?

THE NTC-400 OFFERS:

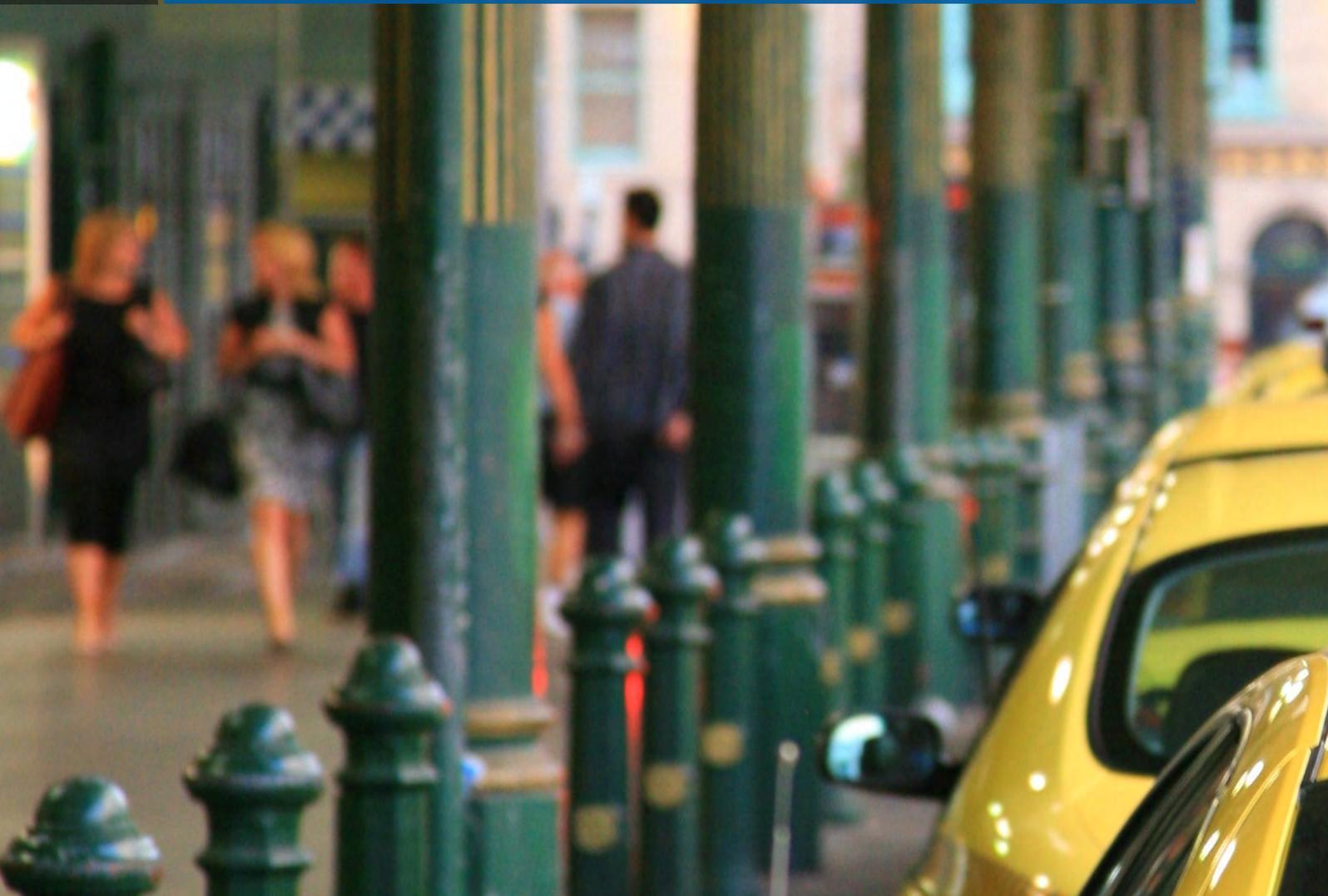
- An industry leading operating temperature range.
- Winter operations down to freezing -30°C (-22°F).
- Summer operations up to super hot 70°C (158°F).



* Please note cellular antennas sold separately



In-vehicle applications





Vehicular environments are harsh on electronics

Whether a heavy industrial mining truck or the finest example of modern automobile technology, all vehicles generate high levels of shock and vibration and the NTC-400 has been designed to excel and last in all of these environments.

Remotely track, monitor and manage a fleet of mobile assets using the NTC-400 for diverse vehicular applications. The device features a high performance accurate GPS, an ignition sensing interface

to allow graceful shutdown at the end of a shift and a power input voltage which is compatible with all types of vehicles including heavy duty mining equipment.

IN-VEHICLE APPLICATIONS



Wi-Fi as WAN

Need a cost effective and reliable way to track data from sensors and cameras installed in your fleet of trucks?

THE NTC-400 OFFERS:

- Vibration and shock resistance to withstand harsh vehicular environment.
- Fast 4G LTE connectivity to all data while the truck is out on a shift.
- Fast Wi-Fi client scheme to upload large data sets to the corporate servers when the vehicle returns to the depot.
- High performance GPS tracking.
- External antenna connectors suitable for rooftop mounted 4G LTE, Wi-Fi and GPS antennas.





Smart fleet tracking

Need a fleet tracking solution that is power efficient and will last in exposed installations?

THE NTC-400 OFFERS:

- Vibration and shock resistant industrial design to withstand harsh vehicular environments.
- A battery saving power management scheme.
- 4G LTE connectivity.
- High performance GPS tracking.



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Carrier grade remote management

User friendly

Designed to optimise the user experience, the NTC-400 features a user friendly web interface and LED indicators to determine the device's status at a glance.

Onsite setup and ongoing remote management is simple, easy and cost-effective with remote access to the **intuitive web user interface** using:

- the cellular network;
- locally by connecting to the device through the Ethernet port, or
- wirelessly using Wi-Fi, which is ideal for installations in hard to reach areas such as a ceiling or in an outdoor enclosure installed high up on a pole.

Managing via SMS

Troubleshoot the device from your phone using simple text messages (SMS) to **securely access the device** and check the current status, change configurations or execute commands.

An SMS gateway supercharges this function, allowing you to update settings across multiple devices quickly and effortlessly, the ideal solution for redirecting a fleet of devices to a new IP address or change the fleet's APN.

Long term remote locations

Need a set and forget solution installed at very remote locations for 10 years or more?

THE NTC-400 OFFERS:

- Long lifecycle components.
- Industry leading reliability.
- Extensive remote management capabilities.

Intelligent events notification

The NTC-400 features a built-in and easy to configure event notification engine which sends **alarms and notifications via email and/or SMS**. Let the device automatically monitor and notify you of critical information such as the power supply, the amount of devices connecting to it, the device's IP address or failed attempts to login which could signify an attempt to hack into the your system.

Flexible device management integration

At NetComm Wireless, we believe in the long-term benefits of open standards based design. This philosophy extends to our remote management strategy.

All our devices give you the freedom to integrate into your existing remote management platform through support of best in breed telecommunications industry standards for remote management protocols such as TR-069, SNMP and HTTP.

Carrier grade remote device management

The NTC-400 is fully integrated into our NetComm RDM product for cost effective management of a large fleet of devices.

Offered either as-a-service or hosted at our customer's preferred site, the NetComm RDM offers carrier grade uptime and service levels and is scalable to any device fleet size.



Power management



Industry leading configurable power management system

The NTC-400 features an industry leading **configurable power management** system to cater for a variety of challenging power environments.

Vehicular installations will benefit from the ignition sensing interface, which can be monitored to activate a **graceful shutdown** of the device at the end of a shift or during a break. This is ideal in situation where you want to finish all data processing, save all data to non-volatile memory or even upload it to a secure server, before shutting down.

After shutdown, the NTC-400 enters a **super low power mode** which, while still drawing some power, reduces it to the absolute minimum by keeping alive only the most critical functions – such as monitoring the ignition sensing input.

The NTC-400 can also be configured to activate based on a preconfigured timer. Ideal for power constrained environments such as solar powered applications, this allows the NTC-400 to wake up only when needed, complete the required process and return to low power sleep mode.

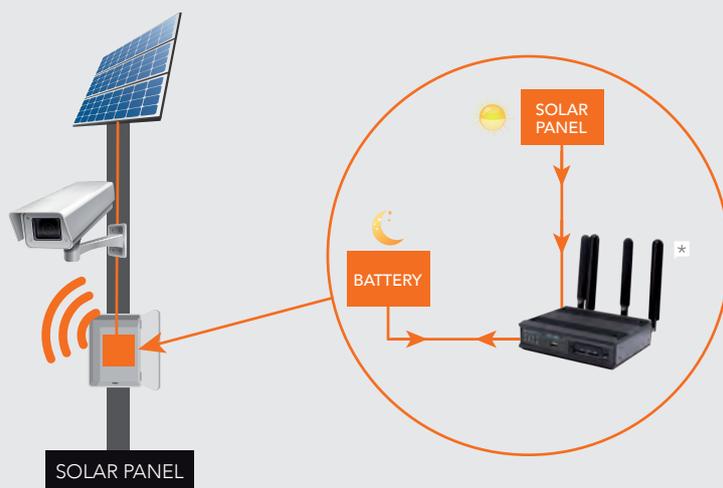


Solar powered installations

Need a high speed router to transfer large amounts of data, but consume little power, since the application will be powered by solar during the day and a battery at night?

THE NTC-400 OFFERS:

- Support for a wide DC voltage input range reducing power componentry.
- Low power sleep mode.
- A configurable power management scheme.



* Please note cellular antennas sold separately



Flexible local connectivity

Equipped with connectivity options covering almost any requirement, the NTC-400 delivers high-speed 4G LTE and Wi-Fi virtually anywhere.

4G LTE Category 6 (300Mbps)

The cellular WAN connection supports 4G LTE (with failover to 3G and automatic fallback to 4G), to deliver the highest speed possible. Included in the box are external antennas that offer high gain crystal clear reception in most situations,

with the option to add even higher gain antennas suited to diverse situations. This makes the NTC-400 ideal for installation at the fringe of the network, and other areas where radio signals are weak.

The device is easily mounted in an outdoor enclosure with external antennas installed high on a pole, or mounted in a truck with the antennas attached to the roof.

One of the Gigabit Ethernet Ports can be configured as an alternative Wide

Area Network (WAN) connection, which can then be connected to your fixed line service. This allows for a quick, reliable and easy to setup business continuity (fixed line backup) service by using the 4G LTE connection until the fixed line connection becomes available – an ideal and cost-effective solution for small to medium enterprises.

USB

The USB interface provides the flexibility to add external storage devices.



Dual Band Wi-Fi

The high speed dual band Wi-Fi access point and integrated hotspot functionality allows multiple Wi-Fi clients to connect simultaneously. The NTC-400 can be used to provide public Internet access to multiple passengers on a bus, or construction workers on a busy work site.

Designed to provide a number of primary connection options, the Wi-Fi connection can be configured as a Wi-Fi client and

a third alternative WAN connection. The NTC-400 can be configured to use the Wi-Fi connection as the primary connection with the cellular connection as a failover.

Ideal for scenarios involving large data files stored on a bus or truck, the NTC-400 can be used to upload the last shifts' camera recordings and other data to the fleet manager's servers via Wi-Fi as soon as the bus or truck arrives at the depot after the shift.

This greatly reduces the cost of file uploads, while still allowing remote access to the files via the cellular network in the case of an accident.

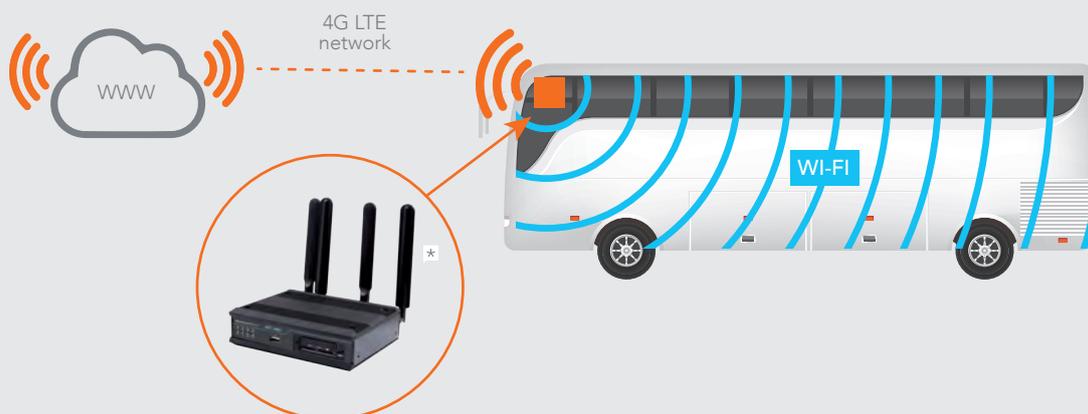


Wi-Fi in a bus

Need a 4G LTE router with high performance Wi-Fi to create a hotspot for passengers?

THE NTC-400 OFFERS:

- Vibration and shock resistance to withstand harsh vehicular environment.
- External antenna connectors suitable for rooftop mounted 4G LTE antennas.
- Exceptional Wi-Fi performance.
- External antenna connectors suitable for ceiling mounted Wi-Fi antennas.
- Built-in hotspot functionality.



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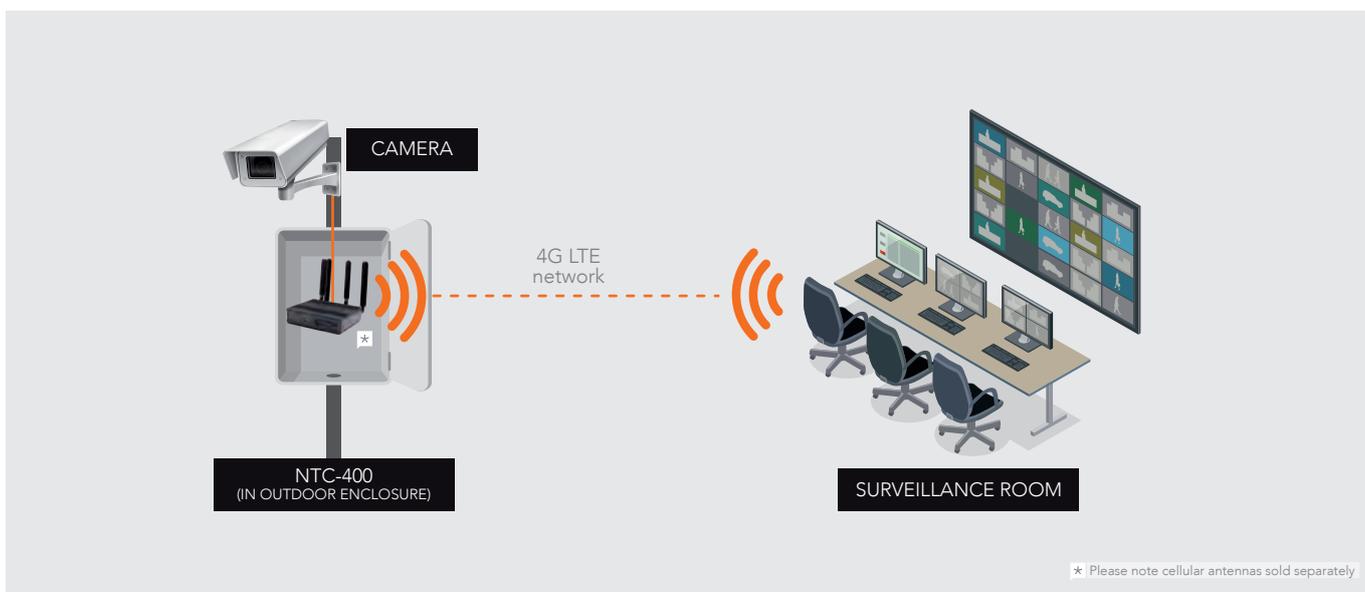


Surveillance cameras

Need a router that can be installed in difficult to reach areas and stream HD quality video from surveillance cameras?

THE NTC-400 OFFERS:

- Extreme temperature tolerance to cope with the extremes of being installed outdoors.
- High speed 4G LTE connectivity for live video streaming.
- External antenna connectors compatible with high gain antennas to ensure perfect network reception.



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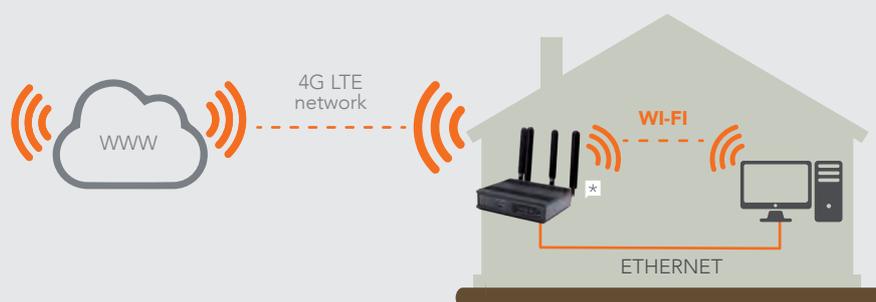


Network fringe installations

Need a high-speed, high-quality Internet connection at a property with weak or unreliable network reception?

THE NTC-400 OFFERS:

- External antenna connectors compatible with high gain antennas to ensure perfect network reception.
- 4G LTE Internet speeds to cater for most household and home business needs.
- Built-in dual band Wi-Fi to share Internet access between users.
- Great remote management to monitor and control the quality of service remotely.



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Business continuity

Need a solution to reduce the impact to your business of regular fixed line failures?

THE NTC-400 OFFERS:

- Three Gigabit Ethernet ports – one of which is configurable as a WAN interface.
- A configurable WAN backup scheme to automatically switch data from fixed line to cellular.
- A 4G LTE connection in the event that a fixed line failure is detected.
- An automatic switchback to the fixed line when the service is restored.



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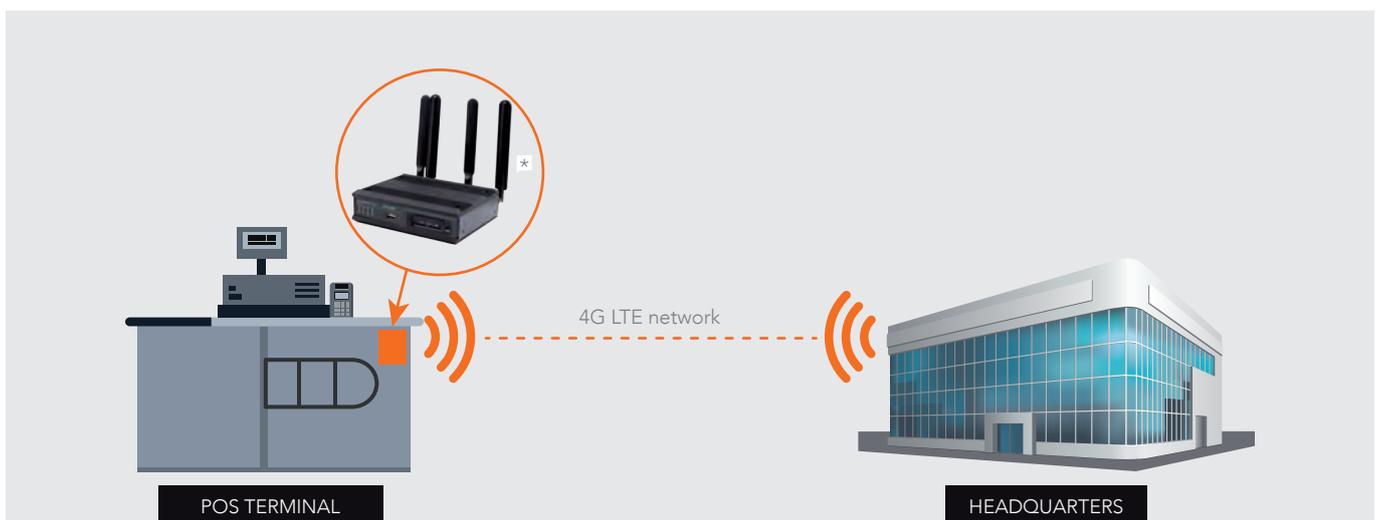


Fixed line substitution

Need a more cost effective connection for your Point of Sale system?

THE NTC-400 OFFERS:

- Low latency 4G LTE connectivity to speed up processing.
- An alternative to fixed monthly fees.
- Pay as you go data fees.
- More resilience against failures.
- Great remote management to monitor and control the service centrally.



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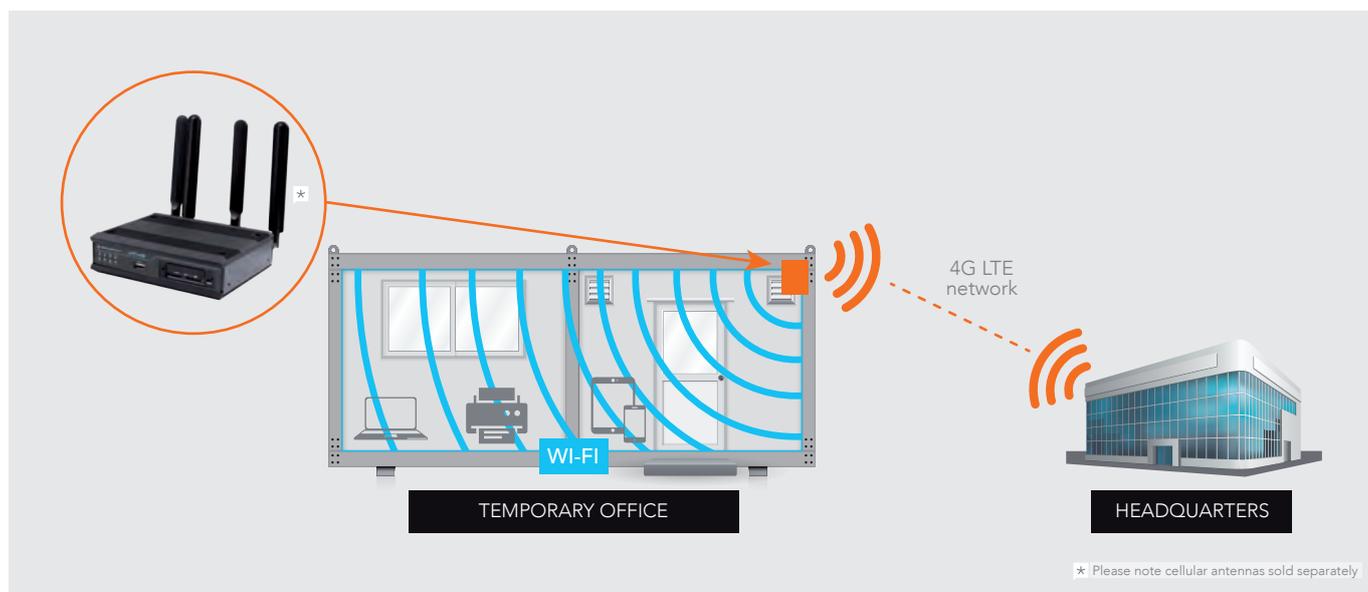


Temporary offices

Need a cost effective connectivity solution at a newly established construction site office?

THE NTC-400 OFFERS:

- Industrial design to operate in the extremes of construction sites.
- A fast 4G LTE connection for great connectivity to head office resources.
- Built-in dual band Wi-Fi to share connectivity with mobile devices on site.
- External antenna connector to cater for sites with bad network reception.
- A highly reliable wireless connection with no risk of being damaged by construction equipment.





Listen. Innovate. Solve.

For over 35 years, NetComm Wireless has engineered new generations of first to market technologies and helped to change the way that the world communicates.

Innovation comes from our people. Working together, from all parts of the globe, we listen to our customers and achieve innovation through a unique understanding of the challenges and opportunities of a connected world.

No matter the challenge, we look at the world through the eyes of our operator partners and customers and innovate solutions engineered to deliver lasting results in line with specific business needs.

Whether transforming rural and regional communities with superfast Fixed Wireless; optimising business efficiencies with smart wireless Machine-to-Machine (M2M) solutions, or extending network infrastructure with Fibre or Cable to the distribution point – NetComm Wireless is backed by the experience, expertise and capabilities needed to optimise outcomes.



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