

5G INDUSTRIAL IOT ROUTER WITH WI-FI

NTC-550

PRODUCT SUMMARY

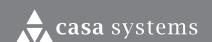
- The NTC-550 is a high-end high-speed industrial-grade 5G router. Designed with critical and complex applications in mind, it provides ultra-reliable, high bandwidth throughput even in extremely demanding environments.
- Ideal for use in emergency vehicles, trucks, and buses, or as the core of complex systems to monitor and control critical infrastructure in remote, unmanned locations.
- Support for the latest wireless technologies including Release 16 5G and Wi-Fi 6 to ensure access to the latest innovations and the best possible throughput at a world-leading price point.
- An extensive array of software features is based on years of experience partnering with globally leading operators, system integrators and multinational enterprises.











TECHNICAL SPECIFICATIONS

CELLULAR BANDS (NTC-551)

FR1 Bands

n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48, n66, n70, n71, n77, n78

ITF Bands

» B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B38, B41, B42, B43, B46, B48, B66, B71

CELLULAR BANDS (NTC-552)

FR1 Bands

> n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n75, n76, n77, n78

LTE Bands

» B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41, B42, B43

PEAK DATA SPEEDS*

5G SA Sub-6

2.4 Gbps (DL) / 900 Mbps (UL)

5G NSA Sub-6

2.5 Gbps (DL) / 550 Mbps (UL)

> 1.6 Gbps (DL) / 200 Mbps (UL)

ANTENNA CONNECTORS

FAKRA connectors

- > 4 x Cellular ports for external cellular
- 1 x GPS antenna port for active external antenna
- > 2 x Wi-Fi 6 (2x2) antenna ports

INTERFACES

- > 1 x 2.5 Gbps LAN/WAN port
- 4 x 1 Gbps LAN ports
- 1 x USB-C port
- > 1 x Ignition sensing port
- 3 x Configurable GPIOs
- > 1 x Configurable serial port (RS232/RS422/RS485)
- > 1 x microSD card slot

LED INDICATORS

- 1 x Power
- 1 x SIM
- 1 x 4G
- 1 x 5G
- 3 x Signal strength
- 1 x Wi-Fi
- 1 x Bluetooth
-) 1 x GPS
- > 2 x Custom indicators

SIM CARD READER

- 1 x Mini USIM/SIM Format (2FF) SIM card slot
- Optional soldered-down SIM (ETSI MFF2 DFN-8 USIM)

GPS

-) GPS
-) GLONASS

CELLULAR

- Profile managed packet data connections
- Profile Routing
- Data Profile IP Passthrough
- SIM Security Management (PIN configuration, enable and disable)
- Automatic and manual cellular band selection
- Automatic and manual operator selection
- Odometer reading available via Web-UI, CLI
- > SIM Switching
- 5G and LTE Cell Lock

NETWORK AND ROUTING

- > Static Routing, Port Forwarding and DMZ
- Dynamic DNS
- VRRP for redundant router failover DHCP Server including address reservation by MAC address
- Custom DNS server definitions
- DHCP list display in Web-UI
- Advanced DHCP Option configuration (Option 42 NTP, Option 66 TFTP)
- Data Stream Manager providing ability to create mappings between input and output ports (e.g. Serial Port, SMS, USB) and perform required translation or data processing by each virtual tunnel
- Modbus Server TCP/IP Gateway and Client TCP/IP Agent with up to 247 slaves connected to the Serial TCP/IP Gateway
- Modbus RTU/ASCII frames support
- > VLAN Management
- > IPS Firewall to protect against DoS attacks
- › Network Service Assurance

- > IPSec tunnel termination (for up to 5 tunnels)
- GRE Tunnelling
- OpenVPN (Client, Server and P2P)

ADMINISTRATION AND CONFIGURATION

- Secure web-based user interface (HTTPS) for full device status and configuration
- Password protected configuration file backup and restore for quick device configuration and device cloning
- SSH Command Line Interface for status monitoring, configuration and control
- SNMP v3 including cellular specific MIB, config and firmware download
- TR-069 and LWM2M for remote device configuration, configuration backup and restore, and firmware upgrade

- SMS Client (Send/Receive) including inbox, outbox
- Ping monitor watchdog (Reset connection on repeated ping failure)
- Diagnostic Log Viewer (remote and local)
- System Status and Security Logs
- NTP Server Support for network time sync of device's system clock
- Advanced Diagnostics and Control via SMS
- Query status information via SMS such as Signal Strength, WAN IP, Uptime, and many more
- Configure device remotely via SMS such as APN, authentication settings, and many more
- Execute commands via SMS such as reboot, reset to defaults, go offline
- Secure SMS management using sender whitelisting and password management
- SMS acknowledgement replies for queries and commands
- Module debugging (QXDM) over Ethernet
- Site and location settings
- > Field test information for LTE and 5G

FIRMWARE MANAGEMENT

- Firmware Upgrade locally via LAN or remotely Over-The- Air (HTTPS, SNMP, TR-069, LWM2M)
- > Triggered firmware upgrade via SMS (initiate download & install from HTTPS)

- Operating Temperature Range: -30°C to +70°C
- Storage Temperature Range: -30°C to +85°C
- Operating Humidity Range: 0-95%

POWER SUPPLY

- > Power input via 6-way termination block receptacle
- Field terminable power input via screw type terminal block included
- DC Power (8 40V DC)
- 1 x Dedicated ignition input and 3 x I/O ports on 6-way connector
- Power consumption, recommended DC supply via terminal block (12V 3A)

DIMENSIONS, WEIGHT AND

- Device dimensions (excluding external antennas): 193.3mm (D) x 175mm (W) x 51.7mm (H) / 1.050 kg
- > Wall mount support in multiple orientations via embedded mounting holes
- DIN Rail mount support via DIN Rail clips included in the box

^{*}Theoretical only - actual values depend on network conditions

TECHNICAL SPECIFICATIONS

FEATURES AT A GLANCE

- > 5G with failover to 4G
- > Wi-Fi 6 and Bluetooth support
- > Multiple gigabits per second ports
- > Built-in GPS
- > Serial port, I/Os and Ignition sensing
- > Robust ruggedized industrial-grade metal housing
- > Wide operating temperature range
- > Designed, assembled and tested for unmanned locations in extreme environments





MODEL VARIANTS

MODEL	NTC-551	NTC-552
REGION / CARRIER	› North America	> Europe > Asia > Africa > Oceania > South America
REGULATORY CERTIFICATIONS	 FCC (USA) IC (Canada) PTCRB (USA and Canada) UL – Planned 	 CE (Europe) RCM (Australia and New Zealand) GCF (Europe) – Planned
CARRIER APPROVALS	 › Bell – Planned › UScellular – Planned › AT&T – Planned › T-Mobile – Planned 	 > Telstra – Planned > Optus – Planned > TPG Telecom Australia – Planned > Orange – Planned > Vodafone – Planned > Telefonica – Planned > Deutsche Telekom – Planned > Spark – Planned > One NZ – Planned

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Specifications are subject to change without notice. Images shown may vary slightly from the actual product.



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