

NL221 4GX Cellular Router

4G/4GX LTE Category 1 Industrial IoT Router Robust, highly secure router with enhanced remote management and software development capabilities enabling bespoke applications. Telstra 4GX (band 28) provides enhanced coverage.

Frequency Bands

LTE FDD (4G) Bands:

- Band 1 (2100 MHz) Telstra 4G
- Band 2 (1900 MHz)
- Band 3 (1800 MHz) Telstra 4G
- Band 4 (1700 MHz)
- Band 5 (850 MHz)
- Band 7 (2600 MHz) Telstra 4G
- Band 8 (900 MHz) Telstra 4G
- Band 28 (700 MHz) Telstra 4GX

LTE TDD Bands:

- Band 40 (2300 MHz)

WCDMA (3G) Bands:

- Band 1 (2100 MHz) Telstra 3G
- Band 5 (850 MHz) Telstra 3G
- Band 2 (1900 MHz)
- Band 8 (900 MHz)

GSM (2G) Bands:

- Band 2 (1900 MHz)
- Band 3 (1800 MHz)
- Band 5 (850 MHz)
- Band 8 (900 MHz)

Dimensions

- 143 mm (L) x 107 mm (W) x 34 mm (D)
- Weight: 221 g

Enclosure

- IP41 rated

Power

- DC Power (8 - 40V DC)
- Consumption 6W
- Vehicle compatible protection on DC Input Jack

Antenna Connectors

- 2 x SMA connectors for 4G/3G/2G (1 x Main and 1 x RX Diversity)
- 1 x SMA connector for active GPS antennae

Interfaces

- 1 x 100Base-T Ethernet RJ45 port
- 1 x RS232 Serial Port DB-9 female DCE supporting either 9 wire RS232 or RS485/RS422 (software selectable)
- 1 x Micro USB 2.0 OTG interface with 0.5A supply capability
- 1 x Recessed multifunctional reset button

LED Indicators

- 8 x tri-colour LEDs - Power, Network, a GPS/customizable LED and 5x Signal Strength indicators
- Easy and clear LED status display for connection status, connected network type, and connection error

Network and Routing

- Static Routing, RIP (v1/v2), Port Forwarding and DMZ
- DHCP Server including address reservation by MAC address
- Custom DNS server definitions

Sim Card Reader

- 1 x SIM card slot SIM Format (2FF)

Processor and Storage

- 1 GHz ARM Cortex A8 processor with 256 MB RAM and 512 MB flash memory storage

GPS Indicators

- GPS
- Glonass
- BeiDou
- Galileo
- QZSS

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 v1/v2/v3 including cellular specific MIB, config and firmware download
- 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

Firmware Management

- Secure web-based user interface (HTTPS) for full device Firmware Upgrade locally via LAN or remotely
- Automated Tokara updates via the Position Partners Tokara Modem Manager
- Multiple firmware image storage on device and dynamic install

TOKARA® Optioned

- Supplied with full Tokara® software for connection to Tokara® network.
- Including Tokara toolbox support - Website API control and diagnostics
- Preconfigured with Test Certificates for simpler deployment.
- GPS Poller 1,2 and 3 to allow signal strength mapping of wireless service, sim card and asset tracking