



Expertise in Voice and Data over 3G/4G LTE

Key Benefits

- 3G/4G LTE remote access device supporting Analog Voice, FAX, SIP, IP Data out of the box
- Built-in 802.11n WiFi Access Point
- Combines standards-based and patented voice compression technologies (Up to 8:1 voice compression)
- Sophisticated prioritisation and QoS management that ensures voice quality is not degraded when heavy data traffic is also present
- Optional Serial Interface
- Central SNMP management or local Web based interface

The VoLTE Systems Nx1100 3G/4G LTE Remote Access Device is a small form factor gateway device and is a member of the VoLTE Systems Nx family, a line of high performance voice and data compression multiplexer routers. Designed as a Voice and Data gateway, for remote access purposes, optimising and prioritizing conventional 3G/4G LTE, broadband, satellite, analog and digital voice and fax.

The VoLTE Nx1100 gateway provides a rapidly deployable, highly available, reliable, and secure solution designed specifically for machine-to-machine (M2M) applications. The VoLTE Nx1100 primarily connects to 3G/4G LTE networks to enable remote equipment monitoring, voice and data connectivity to remote users at any location without fixed line (ADSL/Cable/Fiber) and with an optional firmware upgrade can support a range of SCADA solutions such as smart metering.

Markets that benefit from these applications include industrial automation, transportation, financial, health care, utility, and retail. Fully integrated with VoLTE Nx software, the VoLTE Nx1100 delivers, enterprise-class features, including highly secure data, voice, and video communications to stationary and mobile network nodes across wired, wireless and satellite links.

The VoLTE Nx1100 supports 4G LTE cellular networks, which are 10 to 15 times faster and have 5 times lower latency than older 3G links, allows a small enterprise branch office or remote office to set up comprehensive voice and data services in a matter of hours, without worrying about availability of broadband services and the need for provisioning land lines.

As WAN backup alternatives, 4G LTE and 3G wireless offer greater WAN diversity and resiliency because they are independent of the local terrestrial infrastructure. The VoLTE Nx1100 enables businesses to stay productive during service provider downtime or a network failure. Transition to different wireless networks is transparent to users and devices (such as laptops, smart devices, and surveillance cameras), and applications maintain continuous connectivity without the manual intervention as WAN links change.

As high-speed fibre optical deployments supersede outdated copper networks globally, equipment that relies on dial up for connectivity will be rendered obsolete and need replaced. The Nx1100 incorporates an optional serial interface to provide a seamless and cost-effective switch from dial up to wireless in virtually any legacy environment without having to replace all of your equipment.



VoLTE Nx1100 Features

- **Remote Access Services (RAS)** - The Nx1100 offers remote real time access to equipment from a central location.
- **Serial port** - The optional serial port on the Nx1100 can connect to legacy devices such as emergency and manufacturing equipment to establish a reliable connection between old technology and newer monitoring and management systems.
- **Home Worker** - Home Workers or remote Workgroups can establish corporate voice and data services via the Nx1100. The Nx1100 will support connectivity via 3G/4G LTE, broadband or satellite.
- **Compression and QoS** - The Nx1100 can provide over 8:1 voice compression for WAN bandwidth efficiency while maintaining toll quality voice via standards-based or in-house developed codecs coupled with sophisticated queue buffer, jitter buffer and echo cancellation mechanisms. This will sustain toll voice quality, even over 3G or multiple satellite hops.
- **Security** - The Nx1100 has in-built VPN support for secure connection over any public network.
- **Demanding environments** - Ideal for unmanned, hazardous and remote locations such as remote utilities, the Nx1100 is housed in a metal case and utilises industrial strength components for effective operation in extreme temperature and humidity ranges.
- **Management** - The Nx1100 features browser-based device monitoring, management and configuration.
- **Easy installation** - The Nx1100 can be easily installed and integrated into existing enclosures and buildings.

Hardware Specification

Fixed Data Interfaces	
Ethernet 10/100	1
WAN (optional serial)	1
WiFi 802.11n (access point)	1
Fixed Voice Interfaces	
FXS	2
FXO	1
Approvals	CE, FCC
Dimensions	Width = 140 mm (5.5in) Depth = 95 mm (3.75in) Height = 38 mm (1.5in)
Weight	0.5Kg
Power	External AC power adapter supplied with the product 90-250v AC 50-60Hz Power consumption = 10W
Operating temperature	0 deg C to 40 deg C
Operating humidity	30-90% RH (non-condensing)
Reliability	MTBF > 65,000 hours at +40 deg C

