

Expertise in Core X.25 Networks brought to the Enterprise

Key Features

- Distributed Processing Architecture
- Redundant Power Supplies
- Hot Swappable Fan Tray
- Expandable Modular Design with Hot Swap Modules
- X.25 Switching
- 3 or 6 Ethernet 10/100 Ports
- 2 to 36 Serial Ports at 8,192 Mbps
- Sophisticated prioritisation and QoS management
- Management by SNMP, VoLTE Management GUI and CLI

The VoLTE Systems Nx2222 is the latest in a line of Netrix high performance X.25 packet switching platforms which also support voice and IP and are specifically designed to meet the requirements to support X.25 today while also allowing migration to hybrid X.25-IP and all IP networks in the future.

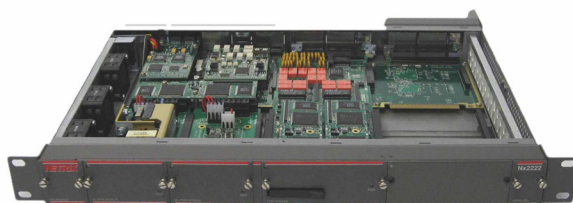
X.25 is still used in many markets due to the robustness of the protocol and its inherent security. It is particularly suited to transactional and low payload data delivery typically used in banking applications. For these reasons there are large networks still being built and supported, however the ageing out of older platforms and the lack of support for X.25 on new platforms is forcing some operators to consider expensive upgrades and compromises in their network operation.

Designed as a fully featured Telecom switching platform, the VoLTE Nx2222 is based on highly proven technology. The VoLTE Nx2222 takes advantage of the latest generation hardware with high speed trunking, distributed processing and advanced software to provide a highly integrated and scalable design all housed in a 1U chassis. The VoLTE Nx2222 allows reduction of network costs and complexity by fully supporting existing X.25 connectivity whilst allowing seamless interconnectivity to IP services. The platforms can be easily upgraded with software packs adding additional or customer specific functionality which make the ROI more attractive.



VoLTE Systems products including the VoLTE Nx2222 are designed with longevity in mind. Unlike IT based technology which typically has a 3 year to end of life window. These are true data switching and IP routing platforms designed with the understanding that customers may require 10 years or more of use, support and provision.

With power redundancy and remote management support, the VoLTE Nx2222 is designed for the often demanding and mission critical environment that by its very nature requires legacy and traditional communications technology to be continued but not compromised. The VoLTE Nx2222 provides vital connectivity to IP infrastructures without affecting the existing local and remote communications interface.



Support for Migration of X.25 to IP Core Network

Operators are finding it increasingly expensive to maintain legacy networks such as X.25 as the support costs for maintaining obsolete core equipment grows. In many cases the operators would like to retire the legacy networks completely, migrating all customers to an IP service. However, customers for whom it is difficult or disruptive to migrate will be left with very large bills, and possibly be driven to alternative IP-only service providers.

VoLTE Systems provides a means of replicating the X.25 service, including all of the X.25 features used, over a low-cost, fully supported IP infrastructure. This allows service providers to continue providing existing legacy services, eliminating customer disruption, while reducing the cost of providing the service.

VoLTE Systems can offer a solution where all X.25 services and access connections can be replicated on a modern IP network. Disruption of customers' services is minimised and equipment replacement eliminated; while additional access methods allow combined services to be offered, as well as a simple migration path to All-IP when the customer is ready. Unlike other solutions, VoLTE Systems offers complete replication of all X.25 advanced features, not just the transport. The VoLTE Nx2222 will also support tunnelling X.25 over TCP using XOT, the gateway allows for seamless integration without modification or re-configuration of the X.25 devices. All existing network addressing is preserved. By transporting the packets, the gateway preserves all of the options of the X.25 protocol. It is a simple and fast solution at low cost.

Specifications

X.25 Features

- 1988 ITU
- X.25 Switching
- X.25 Multilink
- X.75 Gateway
- CUG, NUI Support
- APac Translation Mode
- IP/X.25 (RFC 1356)
- X25/IP XOT (X.25 over TCP/IP)

Frame Relay Features

- Supports Frame Relay (RFC 1490) FRF4, ITU Q.933
- Frame Relay Switching
- Frame Relay FRAD
- X.25 over Frame
- Frame Relay SVCs
- Frame Relay Multilink

TCP/IP Features

- Static routing
- RIPv1 & RIPv2
- OSPF
- ICMP, UDP, FTP, TFTP, SNMP, SSH, TELNET, RLOGIN, HTTP, NAT
- SFTM
- SIP, H323

Serial Interfaces

- High Speed Serial Interface (2 – 10 ports)**
- 36 Ports achievable through stacking*
- EIA-232, EIA-442/449, EIA-530, ITU X.21, ITU V.35
- Physical: Micro DB26
- Handles Nx56/64kbps data rates up to 8192 Mbps

Ethernet

- Switched Ethernet (2, 4 or 6 ports)** RJ45 10/100 Mbps
- Optional 10/100/1000 Mbps Gigabit Ethernet ports (up to 4 ports)
- ANSI T1.617IEEE 802.3, 802.1p/Q
- Power over Ethernet (optional)
- Software configurable switching characteristics, independent IP, QoS and ToS characteristics

Analog voice ports (2 ports)

- FXS fixed (RJ11)
- Optional FXS/FXO software configurable (RJ45)
- 2 PSTN lifeline connections

Physical

- Size: 16.6"W x 9"D x 1.75"H (IU height) (419.1 mm x 228.6 mm x 44.45 mm)
- All physical interfaces are on one side to ease cable management in tight confines
- Rack Mount ears and rubber feet are included

Power

- 30 watts maximum draw
- +/- 20vDC to +/- 65vDC, 1.5 amps max
- +/- 90vAC to +/- 265 vAC, 50-60 Hz, 0.030 amps max
- Optional PSU redundancy (with load sharing)

MTBF

- >65,000 hours @ +45C

Console Port

- RS-232 RJ-45

Environmental

- Operating Temperature - 4° to +149°F (-20° to +65°C)
- Humidity - 0-95% non-condensing

Safety

- FCC 47 CFR part 68,
- IC CS-03,
- IEC 950,
- EN 60950,
- ANSI/UL 60950-1-2002,
- CAN/CSA-C22.2 No. 50950-1-03,
- Telecordia GR-63,
- Telecordia GR-1089
- CE
- RoHS

Other

- Telecordia GR-1244,
- Telecordia GR-3108 (OSP, 07-2004)

Management

SNMP, SNMPv2, Telnet CLI, SSH CLI, serial CLI, NMS

* Enhanced single chassis option Nx2224 available 2016

** Maximum port configurations and loading are dependant on application
Specifications subject to change



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