



Nx2222 RAS

IP Connectivity for Remote Access Services



Example Applications :-

Utility Meter Management

Alarm Response / ARC

CPE Management / NOC

EPOS / Lottery / Transactions

Telemedicine

SCADA / Command and Control

Extensive features include:-

- **Up to 120 ISDN/PSTN Modem Channels**
- **Expandable Modular Design**
- **Gateway functionality with SIP Compliance for Voice and Fax over IP**
- **Onboard Analogue Voice Channels for Management or long line extensions.**
- **Standards Compliance ensures Superior Interoperability**

The Nx2222 is the latest in a line of Netrix high performance voice and data routers designed for aggregating and optimizing PSTN backhaul links. Designed as a fully featured Telecom switching platform, the Nx2222 platforms reduces network costs by providing connectivity for Modem , Fax , Digital and Analogue voice services resulting in very attractive ROI potential.

Based on proven technology, the Nx2222 takes advantage of the latest generation hardware and advanced software to provide a highly integrated and scalable design all housed in a 1U chassis. The platforms can be easily upgraded with software packs adding additional or customer specific functionality which make the ROI more attractive

Software features include a module specifically designed to eliminate obsolete and expensive modem banks and to replace specific functions provided by end of life and unsupported RAS devices such as the Cisco AS5350XM and AS5400XM Universal Gateway.

Up to 4 E1/T1 circuits can be configured to provide Modem RAS support with virtual modem capability built in to each of the individual digital channels. Inbound calls and outbound dialing is supported to allow connectivity to a range of remote modem services. A wide range of modem 'V' specifications are supported, and attention has been given to older connectivity such as split speed and reversed 1200/75 V.23. Connectivity on the LAN side is via TCP/IP to the local server device.

NSG products including the Nx2222 are designed for longevity. Unlike IT based technology with typically has a 3 year to end of life window. These are true communications devices 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 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 Nx2222 provides vital connectivity to modern IP infrastructures without affecting the existing local and remote communications interface.



Communication solutions from

NSGDatacom

extend. evolve. innovate.



Nx2222

Product Features

Specifications

Modem Support

- **T1/E1 (4 ports 120 channels)**
 - V.21 @ 300; V.23 @ 600
 - V.23 @ 1200;
 - V.22 @ 1200; V.22 @ 2400
 - V.32 @ 4800; V.32 @ 7200
 - V.32 @ 9600; V.32 @ 12,000;
 - V.32 @ 14,400.
 - V.23 Direction 75 TX, 1200 RX
1200 TX, 75 RX.
 - V.42 Error Correction
 - AT Command Set

Specifications

Physical Interfaces

- **T1/E1 (0 - 18 ports)**
 - ANSI T1.403, ITU G.703, ITU G.704, ITU G826, TR 62411, TR 54016, ISDN PRI.
 - Framing: D4, ESF, or G.70x
 - Line Coding: AMI, B8ZS, HDB3
 - Physical: 4x RJ-48c
 - Selection by module for T1 or E1. Short or long haul, APS 1:1 and 1+1 functionality with revertive and non-revertive mod
 - BERT and loopback diagnostics, software enabled per line or per timeslot
- **High Speed Serial Interface (1 – 2 ports)**
 - EIA-232, EIA-442/449, EIA-530, ITU X.21, ITU V.35
 - Physical: Micro DB26
 - Handles Nx56/64kbps data rates up to 2.048 Mbps
- **Analog voice ports (2 to 28 ports)**
 - FXS fixed (RJ11)
 - Optional FXS/FXO software configurable (RJ45)
 - 2 PSTN lifeline connections

- **Switched Ethernet 4 – 8 ports)**
 - ANSI T1.617/IEEE 802.3, 802.1p/Q
 - Physical: 4 – 8 x RJ-45
 - Power over Ethernet (optional)
 - Autosensing 10/100 Mbps Switched Ethernet autosensing DI/DIX (auto-polarity)
 - Optional 10/100/1000 Mbps Gig Ethernet ports (up to 4 port)
 - Software configurable switching characteristics, QoS and ToS characteristics

General

- **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
 - Optional Rack Mount ears are included in accessory kit.
 - Optional desk top rubber feet are included in accessory kit.
- **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)
 - Optional 110vAC/220vAC external converter
- **MTBF**
 - >65,000 hours @ +45C

Console Port

- RS-232
- Physical: RJ-45
- Autosensing Async serial at data rates from 2.4 kbps to 230 kbps, serial settings 8N1 or 7E2, autosensing DTE or DCE mode (auto-polarity)
- Console cable provided in accessory kit

Environmental

- Temperature:
Operating - 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

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