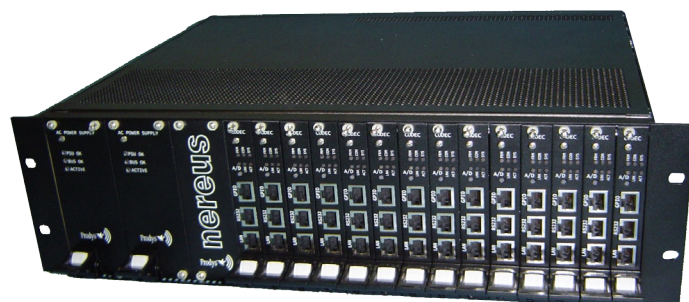


# Nereus

## Multiple IP, ISDN and X21 Audio Codec

**Nereus** is a Multiple IP/ISDN/X21 Codec in a 3U rack, which can house up to 14 IP audio modules or up to 7 couples of IP+ISDN/X21 audio modules.

**Nereus** supports individual remote control of each audio module via embedded web server or centralized management via ProdysControl application.



### Key Features:

- High quality audio streaming over TCP/IP, ISDN or leased lines.
- Configurable and scalable system: Up to 14 audio IP modules. Up to 7 couples of IP and ISDN/X21 modules.
- Widest range of industry-standard coding algorithms as standard; from apt-X to Mpeg4 AAC LC, LD & HE.
- Hot-swappable.
- AC or DC Redundant Power Supply.
- BackUp System: ISDN as a secondary link for IP/X21.
- Powerful Alarm System: Management via SNMP/GPO/email.
- Multicast, Unicast and Multi-Unicast with up to 10 connections per module.
- Prodys Real time Network Analyzer to monitor critical network parameters in real time during the connection.
- Meets the initial standard for IP compatibility of the EBU group: SIP/SAP/SDP/RTP.
- AES/EBU User Bit channel transportation and AES/EBU transparent transmission over IP.
- Easy configuration to optimize link for low delay, jitter and utilization.
- Call facilities: Auto-redial, call scheduler and log systems.
- Independent encoder/decoder operation and automatic detection of the encoding mode.
- FEC (Forward Error Correction) is supported as per the RFC 2733 standard.
- Prodys NAT Traversal Streaming Protocol (v3) permits router firewall pass-through with zero configuration.
- N+1 Prodys Redundancy Protocol allows one backup IP codec to provide resiliency for up to N active IP codecs.
- Prodys PLL algorithm compensates for sampling clock jitter and assures consistent audio integrity and delay over IP.

### Specifications:

#### Analog audio

- Stereo I/O.
- 24 bits A/D and D/A converters.
- Electronically balanced.

#### Digital Audio

- Stereo Audio I/O.
- AES/EBU. Up to 24 bits. Automatic rate adaptation.
- Transparent mode over IP to send data instead of audio, such as Dolby E.
- External clock input.
- EBU U-Bit channel transportation over IP.

#### GPIO & Ancillary Data

- 4 contact closure inputs.
- 4 open collector outputs.
- User configurable. Remote contact closures.
- 1 RS232 ports for aux. data.
- RJ45 connectors on front panel.

#### Audio Compression

- G722
- G711 A/μ Law
- MPEG 1,2 Layer II
- MPEG 1,2 Layer III
- MPEG AAC LC, LD & HE
- Enhanced and Standard apt-X™
- PCM (16,20 & 24 bits)

#### LAN

- 10/100BaseTx Ethernet, connector RJ45.
- TCP/UDP/IP, Multicast, Unicast & Multi-Unicast.
- SNMP, DNS, RIP, SNTp, HTTP, IGMP, ICMP.
- SIP/SAP/SDP/RTP comprising EBU standard.
- Prodys Real Time Network Analyzer.
- FEC as per RFC 2731.
- Prodys NAT Traversal Streaming Protocol (v3).

#### X21

- Synchronous digital dedicated lines up to 384kbps.
- Connector Sub-D 9 ways.

#### ISDN

- 1 BRI connection. S/T and U interfaces.
- BackUp system: ISDN as a BackUp for IP or X21 links.
- RJ45 connector.
- Protocols: EISDN, AT5ESS, DMS100 and NAT1.

#### Alarms and Redundancy

- Monitoring of system parameters, links and decoder.
- Notification via e-mail, SNMP traps and GPO.
- NVRAM memory to store alarm information.
- N+1 Redundancy Protocol.
- AC or DC redundant power supply.

#### Dimensions

- W: 483mm; H: 133,4mm.( 3U); D: 363mm.