

Multiple IP, ISDN and X21 Audio Codec.

Nereus: up to 14 st/28 mono IP audio codecs in a 3U chassis.

Nereus One: up to 4 st/8 mono IP audio codecs in a 1U chassis.



Nereus front view

Nereus is an IP/ISDN/X21 Multicodec which can house up to **14 IP audio modules** or up to 7 couples of IP + ISDN/X21 modules.

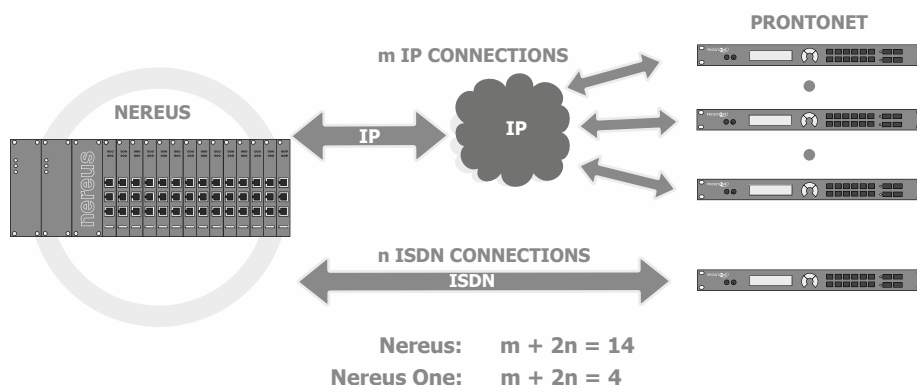
Nereus One is the smaller version and can house up to **4 IP audio modules** or up to 2 couples of IP + ISDN/X21 modules.

These audio modules offer the possibility of extending the number of audio signals provided by a single ProntoNet codec, inheriting all its key features such as its widest range of audio compression modes, stability, flexibility and easiness to use.

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

Operation Features

- ✓ **Configurable and scalable system** : Up to 14 IP modules (up to 4 for Nereus One) or any combination of IP with ISDN/X21 modules. Cards can be hot swapped for servicing.
- ✓ **SolidStream by Prodys** enables streaming of STL-grade audio quality over inexpensive links.
- ✓ Each module can be **controlled remotely** from its Web Page or from ProdysControl.
- ✓ **Automatic detection** of the encoding mode used by the remote unit.
- ✓ **Independent encoding/decoding** operation.
- ✓ **Additional LAN Management port** to split audio and control data flows or for SolidStream.
- ✓ Call facilities: **Auto-redial**, call **scheduler** and **log systems**.
- ✓ **User Access Control** to define different access restrictions in a per user basis.
- ✓ **Configuration presets** to define different configurations for all or some specific parameters.
- ✓ **N+k Prodys Redundancy Protocol** allows K backup IP codecs to provide resiliency for up to N active IP codecs.
- ✓ **Up to 4 user configurable general purpose input-outputs (GPIO)**. Inputs can be set up to control audio inputs or reset alarms, and outputs can be configured to monitor different parameters.
- ✓ **Alarms**: Real Time alarms management through **SNMP traps**, **GPO** and **e-mails**
- ✓ AC or DC power supply with an **option for AC or DC redundant power supply**.





Nereus One front view

Audio Features

- ✓ Analog and Digital Stereo Audio in a single module
- ✓ **Analog Audio**
 - 24 bits A/D and D/A converters.
 - 15 way D type connector electronically balanced.
- ✓ **Digital Audio**
 - AES/EBU. Up to 24 bits. Automatic rate adaptation.
 - Transparent mode over IP to send data instead of audio, such as Dolby E
 - 9 way D type connector
 - External clock input.
- ✓ **Audio Compression Algorithms**
 - OPUS
 - MPEG 1,2 Layer II
 - Enhanced and Standard apt-X™
 - G722 and G711 A/μ Law
 - MPEG AAC LC, LD, HE & ELD
 - PCM (16,20 & 24 bits)

Communications Features: IP, ISDN and X.21

- ✓ **Dual operation over IP and ISDN:** Program and Talkback lines.
- ✓ **IP**
 - 10/100BaseTx Ethernet port, RJ45 connector.
 - Fully **TCP/UDP/IP** connectivity.
 - **IP Multicast, Unicast and Multi-Unicast** audio streaming transmission/reception.
 - **IP Compatibility:** SIP/SAP/SDP/RTP/STUN according to N/ACIP EBU Tech 3326.
 - Prodis **NAT Traversal** Streaming Protocol permits router firewall pass-through.
 - **FEC** (Forward Error Correction) and **Error Concealment** to deal with packet losses.
 - **SolidStream by Prodis** for streaming of STL-grade audio quality over inexpensive IP links.
 - Prodis **Real time Network Analyzer** to monitor critical network parameters in real time.
 - **Automatic Jitter buffer** to avoid audio dropouts, compensating for up to 10 seconds of jitter in the IP connection.
- ✓ **ISDN** (optional) terminal adaptor available with S/T and U interfaces. RJ45 connector.
 - **ISDN Compatibility:** Fully compatible with all major manufacturers, supporting the most important bonding algorithms: J52, Telos and CCS bonding.
 - **BackUp** System: ISDN as a secondary link for IP/X21.
- ✓ **X21** (optional) **interface** available for synchronous digital dedicated lines up to 576kbps.
- ✓ **Auxiliary data** on RS232 or RS442 ports from 300 to 115200.
- ✓ **GPIO** • 4 inputs/outputs. User configurable. Remote contact closures.
- ✓ **Local or remotely (TCP/IP) upgrading** of one or several units at once using the same utility.
- ✓ Factory software upgrades can be downloaded.

	Width	Height	Depth	Chassis
Nereus	483 mm	133.4 mm	363 mm	3U
Nereus One	483 mm	43.4 mm	363 mm	1U



Nereus rear view

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