



Audio Codec Family for IP, ISDN and X21.

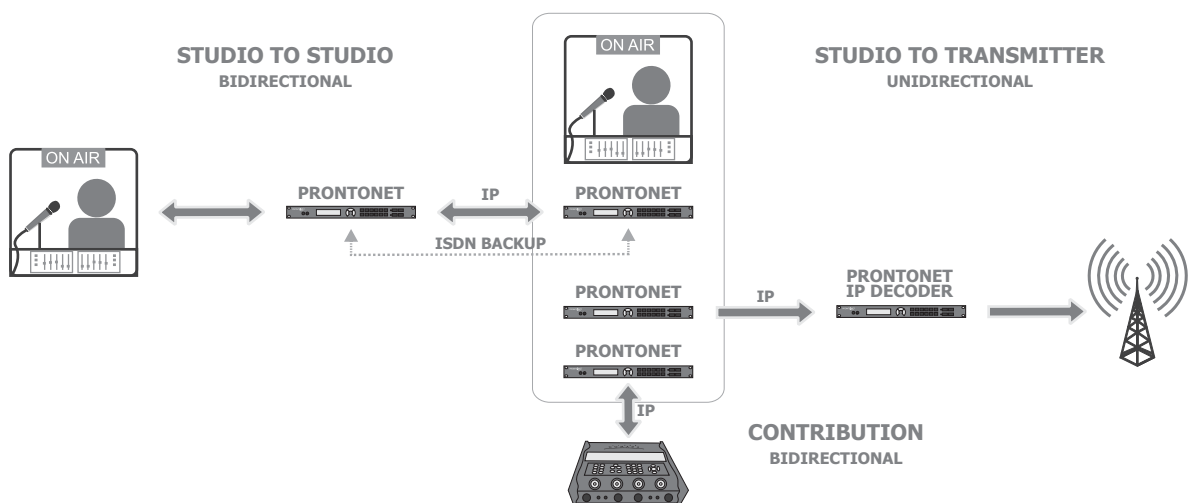
ProntoNet is a multinetwork stereo/dual audio codec, with the widest range of compression algorithms. There are three different models:

ProntoNet: offers the complete set of possibilities: bidirectional, IP/ISDN/X21 and all the available algorithms: PCM, G711, G722, MPEG Layer II & III, apt-X™, MPEG AAC LC/LD/HE & ELD

ProntoNet LC: Customizable Audio Codec, offering a subset of those features provided by ProntoNet. ISDN, AAC or apt-X are offered as an option

ProntoNet IP Decoder: Audio Decoder for IP. It offers the complete set of compression algorithms.

Each ProntoNet fully support IP (TCP and UDP). This enables remote monitoring/configuring and data/audio transportation over data communication links (LAN, WAN, Internet...).



Operation Features

- ✓ **Automatic detection** of the encoding mode used by the remote unit.
- ✓ Independent encoding/decoding operation.
- ✓ **The Ethernet port** is used for audio reception and control. The unit can be controlled remotely from its Web Page or from **ProdysControl**. ProntoNet and ProntoNet LC units can be controlled locally from its front panel.
- ✓ **Additional LAN Management port** to split audio and control data flows (optional).
- ✓ 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 seven 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 line status, audio synchronization or alarms, among other options.
- ✓ **Alarms:** Real Time alarms management through **SNMP traps, GPO and e-mails**.
- ✓ AC power supply with an **option for a DC redundant power supply**.



Audio Features

- ✓ Analog and Digital Stereo Audio in a single unit
- ✓ **Analog Audio**
 - 24 bits A/D and D/A converters.
 - XLR connectors 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
 - XLR connectors
 - External clock input.
- ✓ **Audio Compression Algorithms**
 - G722
 - G711 A/μ Law
 - MPEG 1,2 Layer II & III
 - Enhanced and Standard apt-X™ (* Optional for LC)
 - MPEG AAC LC, LD, HE & ELD (* Optional for LC)
 - 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 according to N/ACIP EBU Tech 3326.
 - Prodys **NAT Traversal** Streaming Protocol permits router firewall pass-through.
 - **FEC** (Forward Error Correction) according to RFC 2733.
 - **Error Concealment** to reduce the impact of packet losses.
 - Prodys **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 for LC, not for IP Decoder)
 - **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 Interface** available for synchronous digital dedicated lines up to 576kbps.
- ✓ **Auxiliary data** Auxiliary data on RS232 or RS442 ports from 300 to 115200 bps.
- ✓ **GPIO**
 - 7 contact closure inputs and 7 open collector 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.

	ProntoNet	ProntoNet LC	ProntoNet IP Decoder
Bidirectional	Yes	Yes	No
ISDN	Yes	Optional	No
Front Panel	Yes	Yes	No
Algorithms	All	AAC and APTx optional	All
Multi-Unicast	Yes	Optional	No

Width	Height	Depth	Chassis
19"	43.4 mm	202,25 mm	1U



Prontonet rear view

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