

# Prontonet IP Decoder

## Audio Decoder for IP



ProntoNet IP Decoder enhances the PRODYS IP audio codecs family. It is based on ProntoNet technology and it is meant to be used along with ProntoNet/Nereus/NomadaIP in audio distribution applications where unidirectional communications are required. It offers the same functionalities as ProntoNet over IP, except that it is only a decoder.

### Key Features:

- IP audio decoder, supporting the widest range of compression algorithms as standard, from apt-XTM to AAC HE.
- Can be controlled locally from its front panel, or remotely from its Web Page or from ProdysControl.
- Audio streaming reception over any standard TCP/IP network of Unicast and Multicast audio connections.
- Meets all mandatory RFC's comprising the initial standard for IP compatibility of the EBU N/ACIP group: SIP/SAP/SDP/RTP.
- Easy configuration to optimize link for low delay, jitter and utilization.
- FEC (Forward Error Correction) and 'Error Concealment' to eliminate the impact of packet losses.
- Prodys NAT Traversal Streaming Protocol 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 Real time Network Analyzer to monitor critical network parameters in real time during the connection.
- Alarm management via SNMP/GPO/email.
- Prodys PLL algorithm compensates for sampling clock jitter and assures consistent audio integrity and delay over IP.
- 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.
- Additional Management LAN port to split audio and control data flows (optional).

### Specifications:

#### Analog audio

- Stereo Output.
- 24 bits D/A converter.
- XLR connectors, electronically balanced.

#### Digital Audio

- Stereo Audio Output.
- AES/EBU. Up to 24 bits. Automatic rate adaptation.
- Transparent mode over IP to receive data instead of audio, such as Dolby E.
- External clock input.

#### GPIO & Ancillary Data

- 7 contact closure inputs
- 7 open collector outputs.
- User configurable. Remote contact closures.
- GPIO connector: DBF25.
- 2 RS232 ports for aux. data reception.

#### 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.
- SNMP, DNS, RIP, SNTIP, HTTP, IGMP, ICMP, STUN, VLAN.
- SIP/SAP/SDP/RTP comprising EBU N/ACIP standard.
- Prodys Real Time Network Analyzer.
- Prodys PLL synchronization algorithm.
- FEC as per RFC 2731.
- Prodys NAT Traversal Streaming Protocol.

#### 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.
- Power Supply Redundancy.

#### Dimensions & Weight

- Width: 19"; Height: 43,4 mm (1U); Depth: 202,25 mm.
- Weigh: 3 Kg, aprox.