

Prontonet

Audio Codec for IP, ISDN and X21



ProntoNet completes the PRODYS audio codecs family improving the features provided in previous models. Real Time OS on a tailor-made hardware, based on audio dedicated DSP, ProntoNet extends its performance possibilities as dual audio codec and supports Apt-X, MPEG AAC LC/LD & HE amongst its coding algorithms and bidirectional uncompressed audio transmission via IP.

Key Features:

- Multinetwork audio codec, with the widest range of compression algorithms as standard, from apt-X™ to AAC HE.
- Can be controlled locally from its front panel, or remotely from its Web Page or from ProdyControl.
- Audio streaming over any standard TCP/IP network with Unicast, Multicast and Multi-Unicast (up to 10) connections.
- Meets all mandatory RFC's comprising the initial standard for IP compatibility of the EBU group: SIP/SAP/SDP/RTP.
- Easy configuration to optimize link for low delay, jitter and utilization.
- Prody Real time Network Analyzer to monitor critical network parameters in real time during the connection.
- Automatic detection of the encoding mode and independent enc/dec operation.
- BackUp System: ISDN as a secondary link for IP/X21.
- Alarm management via SNMP/GPO/email.
- AES/EBU transparent for Dolby E over IP.
- Call facilities: Auto-redial, call scheduler and log systems.
- Universal 110-220 VAC power supply with option for a 24 or 48 VDC secondary power supply.
- FEC (Forward Error Correction) is supported as per the RFC 2733 standard.
- N+1 Prody Redundancy Protocol allows one backup IP codec to provide resiliency for up to N active IP codecs.
- Prody NAT Traversal Streaming Protocol (v3) permits router firewall pass-through with zero configuration.
- Prody 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.
- XLR connectors, 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.

GPIO and Ancillary Data

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

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.
- Prody Real Time Network Analyzer.
- FEC as per RFC 2731.
- Prody 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.
- 24 or 48 VDC secondary power supply.

Dimensions & Weight

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