

Prontonet LC

Audio Codec for IP, ISDN, and X21



ProntoNet LC enhances the PRODYS IP audio codecs family, offering a subset of those features provided by ProntoNet. ProntoNet LC is a multi-algorithm audio codec over IP and leased lines, supporting many popular coding algorithms i.e. G722 and MPEG1/2 LayerII/ LayerIII. Other compression modes, such as apt-X and Mpeg AAC, as well as the ISDN interface, can be installed as options.

Key Features:

- BackUp System: ISDN as a secondary link for IP/X21 (in case of ISDN license).
- Can be controlled locally from its front panel, or remotely from its Web Page or from ProdysControl.
- Audio streaming over any standard TCP/IP network with Unicast and Multicast connections. Multi-Unicast optional.
- Meets all mandatory RFC's comprising the initial standard for IP compatibility of the EBU N/ACIP group: SIP/SAP/SDP/RTP.
- Prodys Real time Network Analyzer to monitor critical network parameters in real time during the connection.
- Easy configuration to optimize link for low delay, jitter and utilization.
- Automatic detection of the encoding mode and independent enc/dec operation.
- Powerful Alarm System: management via SNMP/GPO/email.
- Call facilities: Auto-redial, call scheduler and log systems.
- FEC (Forward Error Correction) and 'Error Concealment' to eliminate the impact of packet losses.
- N+1 Prodys Redundancy Protocol allows one backup IP codec to provide resiliency for up to N active IP codecs.
- Prodys NAT Traversal Streaming Protocol permits router firewall pass-through with zero configuration.
- 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 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 us 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.

Audio Compression

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

LAN

- 10/100BaseTx Ethernet, connector RJ45.
- IP Multicast, Unicast & MultiUnicast (optional).
- SNMP, DNS, RIP, SNT, HTTP, IGMP, ICMP, STUN, VLAN.
- SIP/SAP/SDP/RTP comprising EBU N/ACIP standard.
- Prodys Real Time Network Analyzer.
- FEC as per RFC 2731.
- Prodys NAT Traversal Streaming Protocol.

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.
- Weigh: 3 Kg, aprox.