V100_PTMC Datasheet

Spotlight

The OpenVox V100 new generation transcoding series delivers 3 models for different types of applications. Up to 400 sessions processing performance, both low to high density and superior voice quality are acquired for various IP-PBX systems.

- ✓ 30 to 400 Transcoding Sessions
- ✓ No Licensing Fees*
- ✓ PMC / Enclosure / Extending Evaluation Board / Ethernet Card
- ✓ Reduce Host CPU Load
- ✓ Flexible Adaptability
- ✓ Provides RJ45 Media/Control Flow Paths.
- ✓ Works with Asterisk® and FreeSWITCH®.

Target Applications

- Hosted VoIP GateWay
- Conferencing Server
- IVR Server
- Distributed Office PBX
- Call Centers

Codec Support

- G.711
- G.722
- G.722.1
- G.726
- G.729AB
- GSM-FR
- GSM-EFR
- AMR
- AMR-WB(G722.2)
- iLBC

Requirements

- Operating System: Linux
- Software: Asterisk® and FreeSWITCH®
- Power: 2.2A @ 3.3V

Environments

- Temperature: 0 ~ 50°C (Operation)
  - 40 ~ 125°C (Storage)
- Humidity: 10 ~ 90% NON-CONDENSING

Overview

Because of its low bandwidth requirements, the voice data compression codecs, such as G.729, G.726, AMR, G.722, iLBC, etc., are commonly used in VoIP applications. The G.711 codec is commonly used in legacy telephone network. For bridging TDM to VoIP connectivity, it needs codec transformation. Compared with transformation in software, the V100, based Multicore-DSP, can convert more sessions of transcoding, reduce host CPU load.

The V100 card, are rated to handle up to 32, 64,128,256,400 bidirectional Codec transformations, without additional licensing fees[1] for transcoding (Except for AMR and AMR-WB).

The V100_PTMC is a PMC for transcoding. In addition, it is a PTMC for extending PMC to support stand telecom and telephony interfaces. It is usable with a wide range of PCC, PT2CC, PT3CC, PT5CC.and can provide compact PCI/fornt -panel Gbe/Backplane Gbe/Local CT media/control flow paths. These features can save the cost and support flexible applications.

The V100 can be worked with Asterisk® and FreeSWITCH® .In addition, the media message-based API makes the development easy since the messages and media flow communicate between the PCC's host and V100_PTMC through Ethernet interface .

Features

- High Density Up from 30 to 400 Transcoding
- No Additional License Fee (Except for AMR and AMR-WB)
- Compliant with PICMG 2.15(PTMC) Electrical Specification and IEEE 1386,IEEE1386.1(PMC) Mechanical Specifications
- Configurable for PT2MC/PT3MC/ PT5MC
- Local CT Bus Allowing Flexible Routing of TDM Timeslots both Between the PTMC Sites and the H.110 Backplane CT Bus.
- PT5MC Includes Gbe Connectivity to Backplane Resources
- PMC/PT2MC/PT3MC Include Gbe Connectivity to Front Panel
- Multi Media/Control Flow Paths
- Relieve Host CPU Load
- Release API for Integrations
- OS: Linux
- Integrates in Asterisk® and FreeSWITCH®
- Support Distributed or Integrated Application
- Interface: PCI :32bit 33/66MHz
  Local CT
  10/100/1000 BASE-T RJ45
  UART
  Backplane Gbe
  PMC Connector
- Dimension: 149.0×74.0 mm (PCB)

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