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Find the *DSPCon 9245* at our website: *Click HERE*

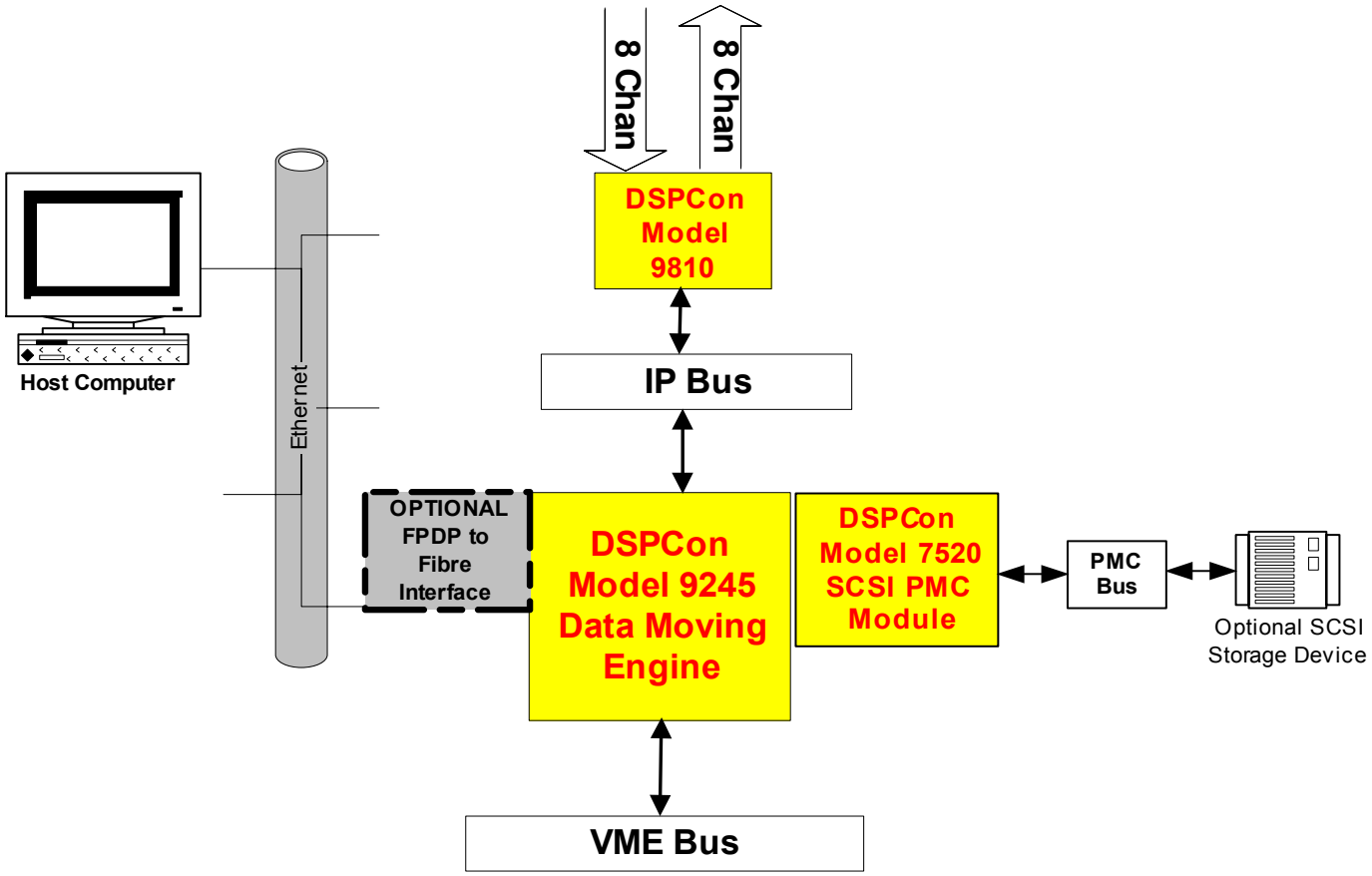
System 2811

Audio Digital Recorder and Playback System with VoIP Option

Acquiring, Processing and Managing the World's Data.

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System Block Diagram



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What is System 2811?

An audio data acquisition system that provides the ability to acquire, record and playback 8 channels of data with a single 6U VME card.

Features

- Allows for operator selection of data rate via software control
- With the exception of the storage device and host computer, 100% DSPCon COTS components
- User software allows operator to control all system functions
- Robust enough to use as stand-alone system
- Diverse enough to be used as a system-building core
- Optional device drivers and compression technology for VoIP capability

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Features (cont'd)

- Ethernet connection from data acquisition unit to a host computer
- Eight channels of analog I/O (A/D and D/A)
  - All channels are acquired and played back at 8 kHz to 100 kHz
  - All channels are sampled simultaneously
- Minimum sampling rate of 8,000 samples/second
- Sample rates selectable under software control
- All required firmware to record and playback data to/from host computer is contained in flash on DSP baseboard
- Data buffering for high-priority network traffic

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Hardware Overview

- Host computer
- DSP baseboard
- 8-channel, 16-bit A/D and D/A card with internal clock
- SCSI PMC Module for data transfer
- Optional SCSI Storage Device

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DSPCon Hardware



- Core of system is DSP baseboard containing two PMC interfaces, an IP interface and a 10/100 Mbit Ethernet interface.
- IP site is populated with 8-channel, 16-bit A/D and D/A card with an internal clock.
- SCSI PMC Module for data transfer to recording device.
- Unpopulated PMC site for future system configuration modifications.

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Software

- Delivered with a sockets-based, C- language API that runs on the host computer and allows for the following functions:
  - Start and stop record
  - Set the record and playback A/D rates
  - Start and stop playback
  - Select the number of active channels
  - Select the sampled width on each channel

Options

- Device drivers and compression technology for VoIP capability
- Variety of user-selectable host bases, including Windows XP or Vista, QNX, Linux, Sun, UNIX, etc.
- Ethernet or Fibre host computer interface
- User-selectable recording devices, including RAID, JBOD, Tape and DAT
- Various memory options for baseboard module
- Modular design facilitates “system stacking” to increase channel count
- FPDP to Fibre channel interface

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