

System 2321

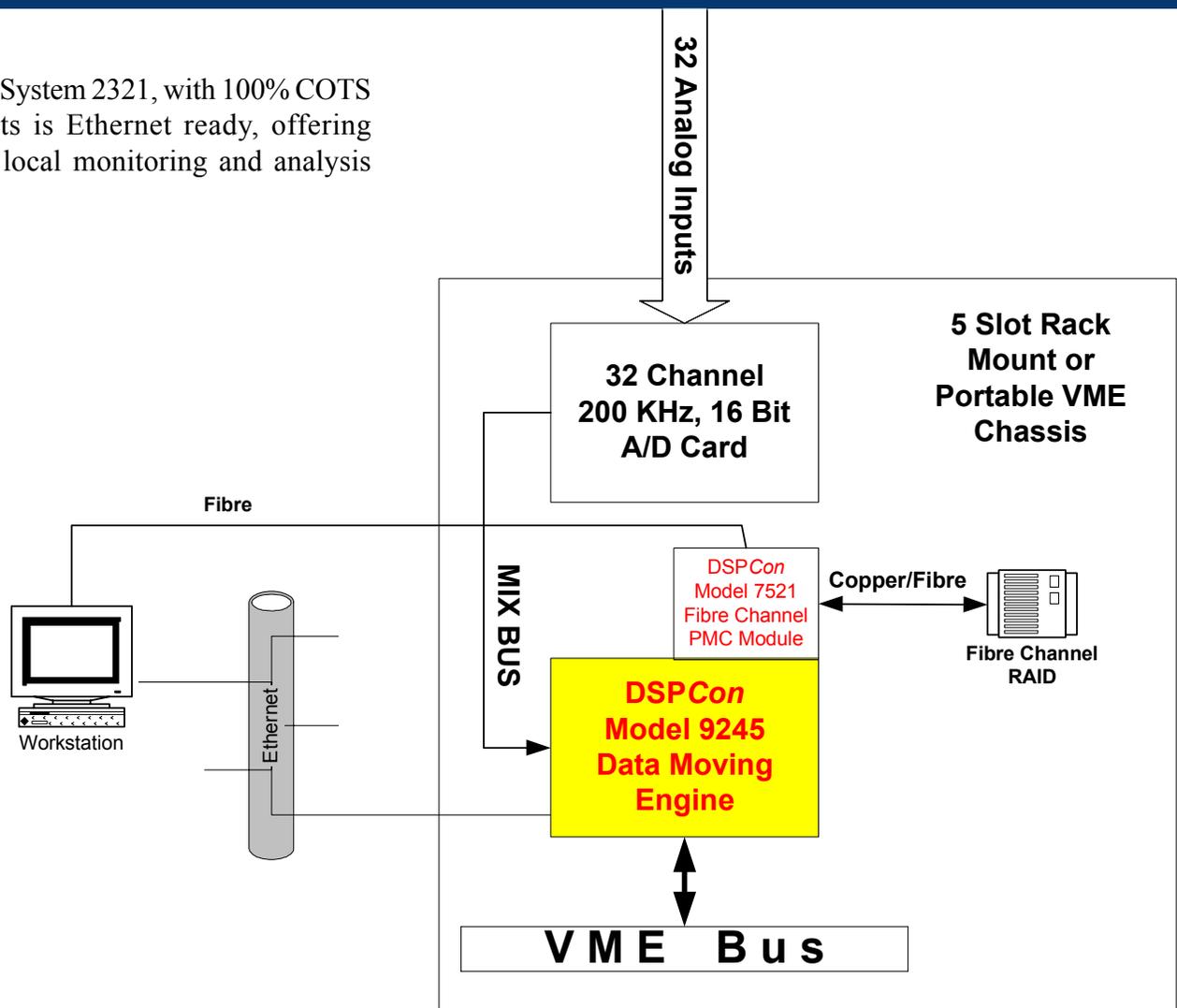
32 Channel Data Acquisition and Record System with Real-time Displays

DSPCon's System 2321 provides a cost-effective, state-of-the-art solution for acquiring and recording up to 32 analog channels. Delivered with real-time display functionality and optional rotating machinery post processing capability, this 5-slot, Fibre Channel system offers flexibility, yet full functionality that only the leader in digital signal processing can deliver.

System 2321 is integrated with 100% COTS components and features user-friendly graphical user interfaces for analysis and control, as well as a standard Ethernet connection for remote or local monitoring and control.

Real-time displays include four selectable, independent time series or spectral displays, snap shot speed, water fall, and RMS numerical readouts. In addition, the optional rotating machinery suite provides full functionality with tachometer analysis, time point analysis, channel analysis, peak hold analysis and order analysis.

DSPCon's System 2321, with 100% COTS components is Ethernet ready, offering remote or local monitoring and analysis capability.



System 2321

Features

- 32 channels of 16 bit Sigma Delta A/D
- Input voltage range from +/- 10 Volts
- Sampling rates of up to 200 KSamples/Second (90 Khz Bandwidth)
- Storage capacity of 750 GBytes (30 hours at 200 Khz sampling)
- Standard Ethernet connection to a local or remote PC host
- Real-time display of up to 32 channels (Time Series or Spectral displays)
- Continuous numerical read out of Engine Speed and RMS.
- Fibre Channel architecture for fast data access and future system expansion with minimal engineering.

Data Flow

Analog samples are acquired and converted by a 32-channel, 200 KHz, 16-bit A/D card and then passed to DSPCon's Model 9245 data moving engine which processes and streams the data to a DSPCon Model 7521 Fibre Channel PMC module. The PMC module communicates with a 750 GByte disk drive for archiving.

The Ethernet connection from the DSPCon Model 9245 provides for remote or local monitoring of data, as well as the ability to extract processed data directly from the RAID.

Software

System 2321 is delivered with both real-time and post processing features. The real-time displays include four selectable, independent Time Series or spectral displays, snap shot speed, water fall, and RMS numerical readouts while the optional post processing software provides analysis capabilities for tachometer, time point, channel, peak hold and order.

The Hardware

DSPCon's System 2321 is delivered with the following hardware:

- One 5-slot Rack Mount or Portable VME Chassis
- One 200Khz, 32-Channel A/D Card
- One DSPCon Model 9245 Data Moving Engine
- One DSPCon Model 7521 Fibre Channel PMC Module
- One DSPCon Model 7512 750 GByteDisk Drive

Optional Post Processing

DSPCon's System 2321 is compatible with our Rotating Machinery Post Processing features, which include:

- Tachometer Analysis--shows the results of the Tachometer Analysis in the form of speed (RPM) vs. Time Plot.
- Time Point Analysis--allows the operator to inspect the data at each of the selected time/RPM points
- Channel Analysis--per channel analysis, including channel spectrum plot and uniformly spaced spectra.
- Order Analysis--for bandpass-filtered order analysis for up to four selected orders.
- Peak Hold Analysis--shows Peak Hold plot (individual spectra and selected points)

