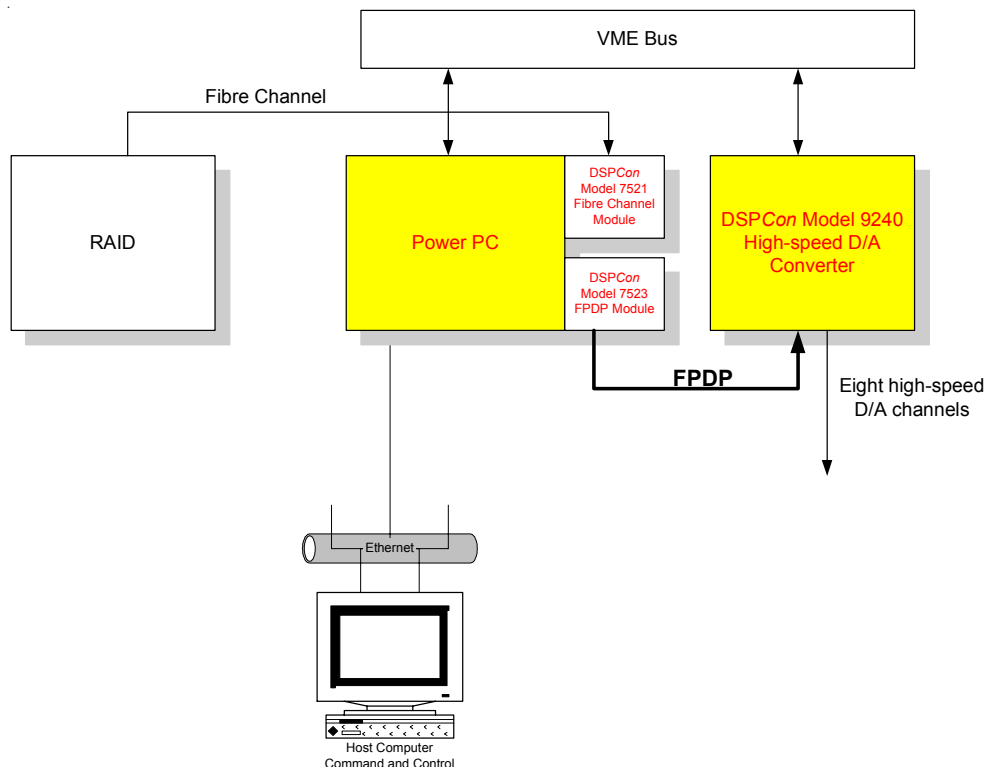


System 2212

FPDP Recorder/Reproducer

DSPCon's System 2212 provides a cost-effective state-of-the-art solution to quickly stream data to/from FPDP to/from a RAID device. Compatible with industry standard RAID devices, DSPCon's System 2212 offers a flexible, modular approach to transmitting data across historically incompatible devices. Use the System 2212 as a stand-alone data-streaming engine or as a system-building core! The modules incorporated in this system include a DSPCon Power PC data streaming engine, an FPDP module and a Fibre module. Combined, these boards provide a solution to a real-time operation that has in the past required several slots or software-intensive applications.

The Power PC, stacked with a customer's choice of any third party FPDP and Fibre channel module is housed in a 3U high, 19" VME rack-mount module. Via FPDP cable, the data is streamed to DSPCon's Model 9240 D/A card. The benefit of using this FPDP cable is the placement of the streaming functions outside of the box, freeing up the VME bus for power and control of the Model 9240 D/A card.



System 2212

Technical Specifications

- FPDP for up to 160 MB/second data transfer to the D/A
- Frees up streaming power to be used by record function
- 150 MB/s sustained record and playback rate
- Optional GB configurations, including 72 and 144.
- Flexible architecture with analog or digital options
- 32 bit TTL I/O record
- Real-time access to playback or monitor data
- Ethernet, Fibre channel, TCP/IP or Embedded for remote or on-sight control, data monitoring and transfer
- GUI (graphical user interface) for real-time monitoring and control of data
- View data in either time or frequency
- Rack mountable system
- Developed with COTS components, allowing for quicker turnaround

Data Flow

Analog samples of digital data are first loaded into the RAID by the user. The RAID then sends these samples to the DSPCon power PC for processing, via the fibre channel. Processed signals are then sent over FPDP to the DSPCon Model 9240 D/A. Eight D/A channels of data are then sent out of the 9240 to actuators, speakers or phones.

System command and control is from a remote or local host computer, which connects to the system via 10/100 Mbit Ethernet, or optional Fibre channel.

The VME bus is used for power and for configuration of the Model 9240 D/A.

Applications

Seismic analysis
SONAR simulation
Beamforming

