



Piranha III™ VME Low Speed Module

POWERFUL SAMPLING CAPABILITIES FOR YOUR LOW- & HIGH-SPEED APPLICATIONS!

Features:

- Combined low- and high-speed data acquisition capabilities utilizing common Piranha III VME architecture and components
- Available as standard equipment in new Piranha III VME systems or as a cost-effective upgrade to existing 32-channel VME systems with available chassis space
- Unique, modular configuration provides additional 96 channels of low-speed data acquisition capability
- Fully-programmable sampling rate range from one to 8,000 samples/second
- Anti-alias filtering protection with automatic cut-off frequency adjustment as a function of sample rate
- Non-linear, time-domain calibration correction in real-time; all channels; full range of sampling rates
- Records data while performing time and frequency domain limits processing in real time
- Module can be calibrated and produces raw data and EU converted data
- Synchronous sampling of channels, including across other modules, within larger Piranha III systems

Now, Cost-Effective Low-Speed & High-Speed Data Acquisition Combined in a Single VME Chassis!

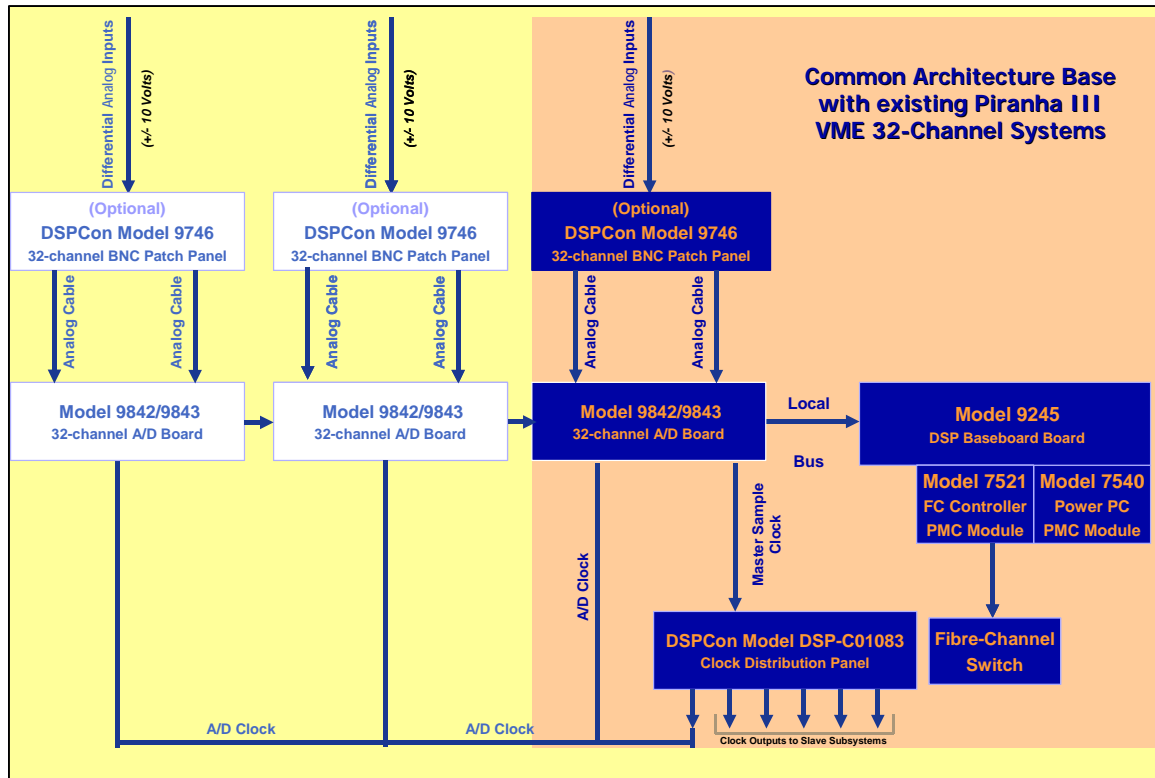


DSPCon's new low-speed module provides a superior range of sampling for dynamic data acquisition applications as well as low-speed applications. Specifically designed to be a cost-effective, easy-to-implement upgrade for existing Piranha III™ VME systems, the new low-speed card is now standard equipment on all new Piranha III VME systems and provides users with an additional 96 channels of data acquisition capability in a compact package that fits easily into existing Piranha III VME 32-channel chassis as well as your budget.

For additional information about our new low-speed data module, please contact us today.

Piranha III VME Low Speed Module

Architecture Overview



Low-Speed Piranha III VME Module Specifications:

Model 9842

- **Input Channels:** 1 - 96, software programmable
- **Sample Rate:** 1 to 8,000 S/S/CH in .001 increments
- **SNR:** >88.5 dB
- **SFDR:** >98 dB
- **SINAD:** >88.4 dB
- **Inter-Channel Skew:** <50 ns
- **Inter-Channel Phase Match:** <0.1 degree @ 10 kHz, <1 degree @ 90 kHz
- **Input Slew Rate:** 15V/uSec
- **Frequency Response:** ±0.1 dB, DC to 90 kHz
- **Input Type:** Differential inputs ± 10 v @ gain of 1
- **Input Impedance:** 100 KOhms
- **Gain Standard:** 1
- **Gain (Optional):** 1, 10, 100
- **CMMR:** 100 dB Typical
- **Input Anti-Alias Filter:** Analog: 2-pole Butterworth at 320 kHz
Digital: Sigma-Delta @ .4535 x Sample Rate
- **Coupling:** AC and DC
- **Cross Talk (50 Ohm Impedance):** -110 dB @ 1 kHz; -95 dB @ 10 kHz

Model 9843

- **Input Channels:** 1 - 96, software programmable
- **Sample Rate:** 1 to 8,000 S/S/CH in .001 increments
- **SNR:** >88.5 dB
- **SFDR:** >98 dB
- **SINAD:** >88.4 dB
- **Inter-Channel Skew:** <50 ns
- **Inter-Channel Phase Match:** <0.1 degree @ 10 kHz, <1 degree @ 90 kHz
- **Input Slew Rate:** 15V/uSec
- **Frequency Response:** ±0.1 dB, DC to 90 kHz
- **Input Type:** Differential inputs ± 10 v @ gain of 1
- **Input Impedance:** 1 Mega Ohm
- **Gain Standard:** 1,2,4,8
- **Gain (Optional):** 1,10,100,1000
- **CMMR:** 100 dB Typical
- **Input Anti-Alias Filter:** Analog: 2-pole Butterworth at 320 kHz
Digital: Sigma-Delta @ .4535 x Sample Rate
- **Coupling:** AC and DC
- **Cross Talk (50 Ohm Impedance):** -110 dB @ 1 kHz; -95 dB @ 10 kHz