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Find the *Frequency Devices VX8PFFA-8* at our website: *Click HERE*

FREQUENCY DEVICES™, INC.

Model VX8PFFA

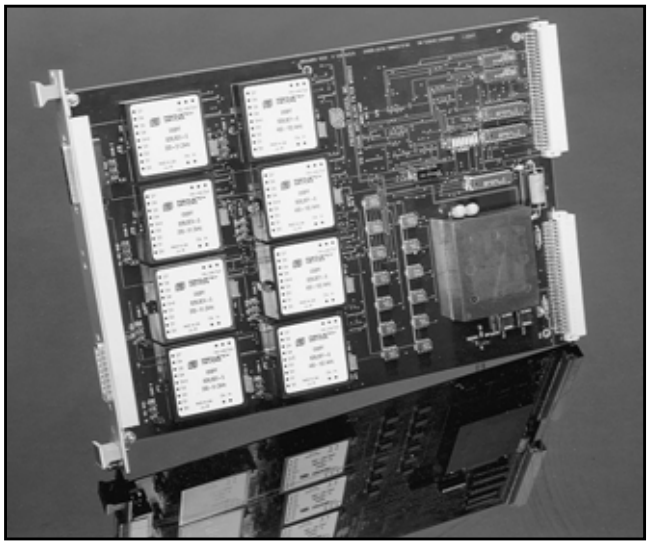
Programmable Filter Selectable Gain VXI Board

8-Channel

Description

Frequency Devices Model VX8PFFA, is a single width, C-sized Filter/Amplifier, VXI signal conditioning module. Each instrument offers 8-channels of 4- or 8-pole, frequency programmable filters with jumper select signal gain of 1, 10, 100, 1,000. Filters achieve a -100 dB attenuation floor, sufficient for 16-bit A/D's in any one of five standard factory-set tuning ranges or 8-bit custom ranges from 1.0 Hz to 102.4 kHz. Each channel includes differential or single-ended input and buffered output with channel-to-channel crosstalk typically below -96 dB.

Users can select from high-pass or low-pass filters or can externally cascade high- and low-pass filters into band-pass configurations. Conforming to system-integration standards of VXIplug & play System Alliance, the VX8PFFA will integrate into any WIN (VTL 3.0) and GWIN (VTL 3.0) VXI test or data-acquisition system.



Features/Benefits:

- Simultaneous sampling over 8 channels provides a low cost, versatile and convenient way to control filtering and gain scaling.
- Solves precision performance problems of design engineers, system integrators and OEM's.
- Broad range of transfer characteristics and corner frequencies are offered to meet a wide range of applications.
- Low harmonic distortion and wide signal-to-noise ratio to 16-bit resolution.

Signal conditioning applications include:

- Engine test and simulation
- Automotive test cells
- Aerospace, navigation & sonar
- Laboratory R & D
- Acoustic and vibration analysis
- Satellite & Telecommunications
- Automatic test equipment (ATE)
- Industrial process control

LOW-PASS FILTER OPTIONS

4-pole	824
8-pole	828

HIGH-PASS FILTER OPTIONS

4-pole	824
8-pole	828

BAND-PASS FILTER OPTIONS

2-pole pair	824BP
4-pole pair	828BP

BAND-REJECT (NOTCH) FILTER OPTIONS

4-pole pair	828BR

Ordering Information

Channels 1, 2, 3, & 4 — Channels 5, 6, 7, & 8

VX8PFFA-828H8E-2/828L8E-6

Note: See 824 and 828 specification sheets for available filter models and tuning range

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FREQUENCY DEVICES™, INC.

Model VX8PFFA

Programmable Filter Selectable Gain VXI Board

Specifications

(@ 25°C and rated Power Input)

Analog Input

1. Number of Channels	8-channels/"C" size VXI slot
2. Input Range	+/-10V pk. linear
3. Maximum Input	50V pk. without damage
4. Impedance	Single-ended, jumper selectable - 1 MΩ//47 pF Differential, jumper selectable - 1 MΩ//47 pF
5. Common Mode Rejection	70 dB min. @ 60 Hz

Analog Output

6. Impedance	10Ω max., buffered output
7. Linear Operating Range	+/-10V pk.
8. Maximum Current	+/-2 mA
9. Offset Voltage	2 mV typ. trimmable to zero
10. Short Circuit Protection	Yes
11. Cross Talk	-90 dB typ.@ 100 kHz -96 dB typ. @ 10 kHz

Filter Characteristics

12. See 824 and 828 Series specifications
13. External 8-bit CMOS latches hold frequency data
14. Filter bypass mode

Gain

15. Jumper Selectable Steps	1, 10, 100, 1,000
16. Accuracy	+/-2%

VXI Compliance

17. A16, D16, Slave A16, Register based, Rev. 1.3, supports Dynamic Configuration

Connectors

18. Two, 25-pin “D” type for analog I/O

Power Required	Both supplies fused on board
19. +5V Supply	900 mA typ., 1.2 A max.
20. +24V Supply	450 mA typ., 600 mA max.

Environmental and Mechanical

21. Operating Temperature Range	0°C to +70°C
22. Storage Temperature Range	-25°C to +85°C
23. Dimensions	“C” size VXI, single slot
24. Weight	5 LBs., (2.27 kg.)

Instrument Drivers - VXI plug & play Compliant

25. WIN (VTL 3.0) - Lab Windows/CVI, DLL
26. GWIN (VTL 3.0) - Labview

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