FREQUENCY DEVICES™, INC.

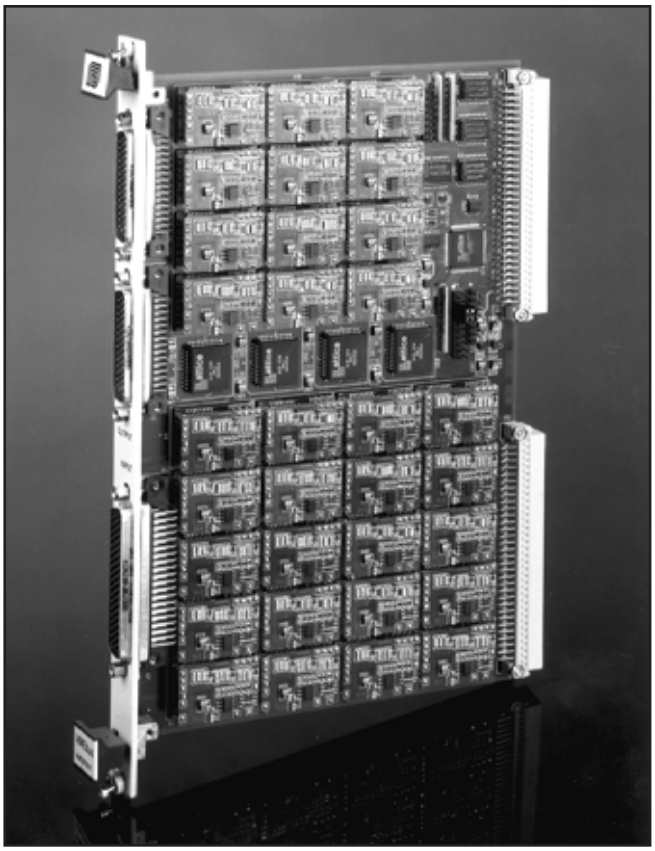
Model VM32PA2.0

32 Channel

Programmable Amplifier >100 kHz to 2.0 MHz VME Board

Description

Frequency Devices' Model VM32PA2.0 comprises a family of VMEbus amplifier boards offering software programmable differential amplifiers in a single width B-size (6U) VME form factor. VM32PA2.0 boards provide simultaneous access to 32, DC-coupled wideband signals while providing programmable gain from –12dB to +36dB in 6dB steps for signal bandwidths from >100 kHz to 2.0 MHz. VM32PA2.0 boards may be configured with 8, 16, or 32 channels. The boards conform to VME revision C.1 as an A16/D16 Slave. Available options include AC-coupled input.



Features/Benefits:

- Simultaneous access over 32 channels offers a low cost, versatile and convenient way to provide amplification.
- Three active read/write registers provide programming and set-up verification.
- Phase match of ±2.0º and gain accuracy of ±0.1dB provides precision performance solutions to design engineers, system integrators and OEM's.
- High channel count density without sacrificing performance maximizes chassis utilization.

Signal conditioning applications include:

- Sonar, navigation and aerospace
- Engine test and simulation
- Acoustic and vibration analysis
- Satellite and telecommunications
- Laboratory R & D
- Automatic test equipment (ATE)
- Industrial process control

U.S. Selling Price (1-4)

VM32PA2.0-8	. .$1,700.00
VM32PA2.0-16	. . 1,800.00
VM32PA2.0-32	. . 2,200.00
Add Price of PGA Modules	
U.S. Selling Price + 20%	
F.O.B. Haverhill, MA	
Accept Visa, Mcard, Amex	

Orders for Export
Minimum Order Value $150.00
Lead-Time: 6-8 weeks A.R.O

GAIN AMPLIFIER
PGA5-2.0 -12 dB to +36 dB in 6 dB steps

Ordering Information

8, 16, or 32Channels — **Optional: A- AC Coupled Input**

VM32PA2.0-32-PGA5-2.0-A

25 Locust St, Haverhill, Massachusetts 01830 • Tel: 800/252-7074, 978/374-0761 • FAX: 978/521-1839
e-mail: sales@freqdev.com • Web Address: http://www.freqdev.com

Specifications

(@ 25°C and rated power Input)

Wideband Programmable Gain Amplifier

32 CHANNEL VME SIGNAL CONDITIONING BOARD

Analog Input	
1. Impedance	1 MΩ differential, 500 kΩ to ground, each leg
2. Linear input range	8 V pk-pk, each leg
3. CMRR	≥ 50 dB, DC to 100 kHz
	≥ 40 dB, 100 kHz to 2 MHz
4. Maximum input range	20 V pk-pk, each leg
5. AC coupling (Optional Fixed Freq.)	20 Hz to 1.0 kHz
Analog Output	
6. Impedance	50 Ω, single-ended
7. Drive capability	≥ 50 Ω load impedance
8. Linear operating range	2 V pk-pk
9. Offset voltage	< 25 mV typ. at output
10. Offset temp. coeff.	1.5 mV/°C at output
	25 mV/°C referred to input
Programmable Amplifier	
11. Signal bandwidth (-3 dB)	2 MHz
12. Amplitude match	0.2 dB over specified bandwidth, chan. to chan.
13. Phase match	±2.0° over specified bandwidth
14. Noise voltage density, RTI	16 nV/√Hz
15. Distortion (2 V pk-pk)	≤ -60 dB, 20 Hz to 100 kHz
	≤ -50 dB, 100 kHz to 2 MHz
16. Gain programming	0.25X to 64X in factors of 2
17. Gain accuracy	± 0.1 dB
VMEbus	
18. Interface	A16/D16, D08 (EO), Slave
19. Registers	Three active R/W registers in 64 byte blocks
Power Supply	
20. From VME Backplane	+5V – 1.0A max.
	±12 - 1.25A max.
Environmental	
21. Operating	0°C to +70°C
22. Storage	-25°C to +85°C
23. Humidity	0 - 95% non-condensing
Mechanical	
24. Card Size	VMEbus 6U single slot 9.17 x 6.3 inches, (233 x 160 mm)
25. No. of Input Channels	32 Differential
26. No. of Output Channels	32 Single Ended, Two groups of 16
27. Mating Connectors	Input: Male high density 78-pin D sub, Quantity 1
	Output: Female high density 44-pin D sub, Quantity 2
28. Weight	1.0 LBs., (454 grams)

We hope the information given here will be helpful. The information is based on data and our best knowledge, and we consider the information to be true and accurate. Please read all statements, recommendations or suggestions herein in conjunction with our conditions of sale which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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