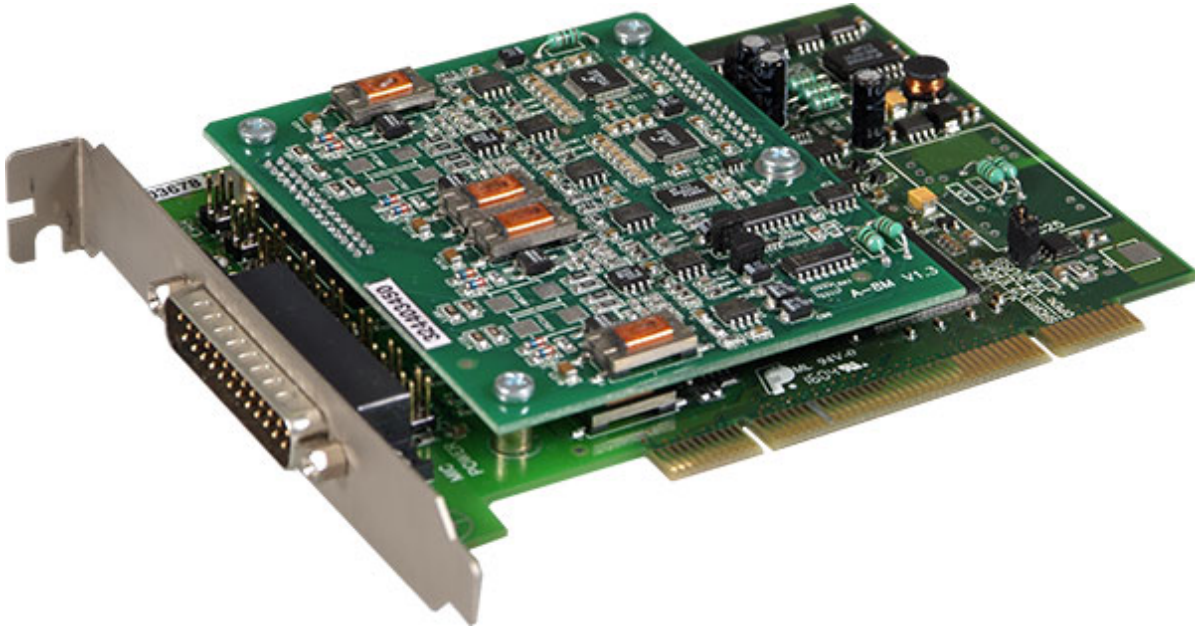


VOCORD A8

8-Channel Board for Analog Audio Data Recording



Applications

The board is used in multi-channel audio registration systems for recording signals from analog telephone lines, microphones, and other line outputs.

Description

VOCORD A8 board has mezzanine design. It consists of host board and mezzanine submodule. The host board and mezzanine support 4 interfaces each, thus allowing one to create highly scalable recording systems with total capacity of 4 to 128 channels.

VOCORD A8 features high quality line interface. At sample frequency of 8 kHz the signal/noise ratio amounts to 78 dB. Hardware audio compression considerably decreases central processor loading and allows to create multifunction and trusted audio-recording systems.

Using VOCORD A8 and the pertaining equipment produced by Vocord one can obtain a fax demodulator and decoder supporting the following fax protocols: Fax SuperG3, .30, .4, .6, V.21, V.8bis, V.27ter, V.29, V17, V34 (up to 33600 bps).

Technical Specifications

Parameter	Value
Number of channels	8
Max number of boards in a system unit	16
Telephone interface	
Type of interface	Two-wire
Input resistance (at parallel connection)	1 MOhm
Frequency range	300-3500 Hz at 8 kHz; 300- 7000 Hz at 16 kHz; 300 - 13000 Hz at 32 kHz
Input connector	DB25
Analog interface	
Sampling frequency	8, 16, 32 kHz, quantization being 16 bit
Input signal preamplifier	Up to 22.5 dB (increase interval is 1.5 dB)
Signal/noise ratio	78 dB
Harmonic factor	-75 dB
Intermodulation factor	-70 dB
Line voltage measurement	±200 V accurate within 0.2 V, refresh rate is 200 Hz

Peak audio amplitude	Up to $\pm 7V$ (amplitude)
Transmitting signal (speech, tones, CALLER ID) to line	Peak amplitude is +3 dB
Galvanic isolation	> 1000 V
In-phase rejection	80 dB
Sound processing	
AGC range	Up to 18 dB (program preset)
Audio compression	G.711, GSM 6.10
Additional functions	
Detection of calling signal	From 20 V in the range of 16.7 to 100 Hz
Electret microphone support	Supply 5 V, 1 kOhm, balanced input
Detector of modem and fax transmissions	V.21, V.8bis, Bell202, V.17, V34, V.90, V.92, T.30, V.27ter, V.29, V17.
Remote user number identification	CALLER ID
PC interface	
PCI-bus	PCI 2.2 BusMaster 32 bit, 32 MHz
Form factor	PCI half size (150 106 mm)
Power supply	
+5 VDC	< 300 mA
± 12 VDC	+12 < 200 mA; -12 V 0 mA
Operation temperature	From 0°C to +50°C
Storage temperature	From -20°C to +70°C
Humidity	From 8% to 80%
System requirements	
Operating system	Windows 2000/XP/2003
RAM	128 MB for Windows 2000/XP/2003