



Features

- USB 1.1, 12MHz full speed, fully compliant with USB 2.0 specification
- 16-Bit Delta-Sigma ADC and DAC
- Driving Headphone and Passive Speaker Directly
- Built-in Condenser Microphone Bias
- Volume and Mute Control
- Auto switching USB/external power
- DIN-Rail Mounting



Introduction

The USB-2020 is a USB interface audio device, supports 32, 44.1 and 48 kHz, 8 or 16 bits stereo audio output, and 8, 10.025, 16, 22.05, 32, 44.1, and 48 kHz, 8 or 16 bits stereo microphone input. The USB -2020 supports Plug-and Play in Windows 2000/XP/Vista/7/8/10 and Linux OS. XPAC-8000 already built-in USB-2020 driver.

Applications

- Audio Speaker
- Audio Monitor
- Voice System
- External Sound Card

Specifications

Audio Output		Interface	
Output Channels	Mono, Stereo(L + R)	USB 1.1, 12MHz full-speed, fully compliant with USB 2.0 specification	
Resolution	8 bits, 16 bits	HID volume up, volume down and Mute buttons	
Sampling Frequency	32, 44.1, 48 kHz	3.5mm stereo jack line-out and 3.5mm stereo jack mic-in	
THD+N	< 0.02% (0 dB), < 3% (-60dB)	External power terminal block	
Dynamic Range	> 85 dB	LED Display	
SNR(Signal to noise ratio)	> 87 dB	1 LED as Power indicator	
Channel Separation	> 85 dB	Power	
Output Voltage	3 Vrms	External Power Input Voltage	+10 ~ +30 VDC
Output Current (max)	30 mA	Power Consumption	1 W(standby)/1.8 W(max.)
Audio Input		Auto Switching USB/External Power	
Input Channels	Mono, Stereo(L + R)	Dimensions	
Resolution	8 bits, 16 bits	Case	Plastic
Sampling Frequency	8, 11.025, 16, 22.05, 32, 44.1, 48 kHz	Flammability	UL 94V-0 materials
THD+N	<0.1% (0 dB)	Dimensions (W x H x D)	33 mm x 107 mm x 78 mm
Dynamic Range	> 80 dB	Installation	DIN-Rail
SNR(Signal to noise ratio)	> 80 dB	Environment	
Channel Separation	> 78 dB	Operating Temperature	-25 to +75°C
Input Voltage (max)	1.4 Vrms	Storage Temperature	-40 to +80°C
Input Impedance	10k Ohm	Humidity	10 ~ 90% RH, non-condensing
Condenser Microphone Bias	Yes		

Ordering Information

USB-2020 CR	USB Audio Device (RoHS)
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Ordering Information

USB-2020 CR	24 VDC/1.04 A, 25 W Power Supply with DIN-Rail Mounting
MDR-20-24 CR	24 VDC/1 A, 24 W Power Supply with DIN-Rail Mounting
GPSU06U-6 CR	24 VDC/0.25 A, 6 W Power Supply