

TP-428 PRO

4进8出数字音频处理器

Digital Signal Processors 4 IN 8 OUT

TP SERIES



产品特性 Features

▶ TP-428 PRO 是一款全新升级功能强大的处理器。有4个模拟输入，2个数字AES3输入，8个模拟输出。采用96kHz采样率，64dit 的浮点DSP处理器作为中心处理，大大提升信号处理的动态范围，120dB动态范围(输入)/120dB动态范围(输出)。8路输出通道都配置了FIR滤波器，每路输入和输出均有10段PEQ，EQ可被设为Bell, High Shelf, Low Shelf, Notch, Allpass, Band Pass, High Pass, Low Pass。最大的输出电平+17dBu。

▶ 通过前面板或远程控制应用程序控制，可以通过连接PC，MAC来进行操作DSP设置和系数在改变参数时实时计算及监控每个输入和输出通道信号状态。该软件可以同时控制多个设备。在一个典型(默认)DHCP配置中，同时控制的机器数量可高达250台。

▶ The TP-428 PRO is a newly upgraded and powerful processor. Within this device, there are 4 analog inputs, 2 digital AES3 inputs, and 8 analog outputs. Meanwhile, the 64dit floating point DSP processor with the sampling rate of 96 kHz is selected as the central processor, greatly improving the dynamic range of the signal processing. Overall, the dynamic range data for this device includes 120dB of dynamic range (input) and 120dB of dynamic range (output). In addition, FIR filters are configured in all eight output channels. And there are 10 PEQ segments in each input and output. At the same time, EQ can be set to Bell, High Shelf, Low Shelf, Notch, Allpass, Band Pass, High Pass, and Low Pass. The maximum output level is +17dBu

▶ Through the operation of the front panel or remote-control application, this device can be connected to a PC or MAC to perform DSP settings. During the parameter setting process, the signal status of each input and output channel is calculated and monitored in real time. This software can be used to control multiple devices simultaneously. In a typical (default) DHCP configuration, the number of machines under simultaneous control can be as high as 250.

参数规格 Specifications

输入	4路模拟平衡输入，2路AES/EBU数字输入	Input	4-channel analog balanced input, 2-channel AES/EBU digital input
输出	8路模拟平衡输出	Output	8-channel analog balanced output
最大输入电平	+23dBu	Maximum input level	+23dBu
最大输出电平	+17dBu	Maximum output level	+17dBu
频率响应	20Hz~20kHz (+/-0.6dB)	Frequency response	20Hz~20kHz (+/-0.6dB)
输入/输出动态范围	120 dB(A)	Input/output dynamic range	120 dB(A)
总谐波失真	≤0.006%	Total harmonic distortion	≤0.006%
采样率	96kHz	Sampling rate	96kHz
信噪比	≥118dB	Signal-to-noise ratio	≥118dB
A/D、D/A转换	64bit	A/D、D/A conversion	64bit
均衡	每路输入10段PEQ，输出10段PEQ	Equalization	There are 10 PEQ segments in each input and output
滤波	FIR,Bell, High Shelf, Low Shelf, Notch, Allpass, Band Pass, High Pass, Low Pass	Filter	FIR,Bell, High Shelf, Low Shelf, Notch, Allpass, Band Pass, High Pass, Low Pass
延时	每路输入延迟2000ms, 每路输出延迟50ms	Delay	The delay for each input is 2000 ms, and the delay for each output is 50 ms
分频	Butterworth,Bessel,Linkwitz-Riley,12.18.24dB/octave	Frequency division	Butterworth,Bessel,Linkwitz-Riley,12.18.24dB/octave
控制接口	1个USB接口，2个以太网RJ45接口，可远程控制及实时监控	Control interface	1 USB interface, 2 Ethernet RJ45 interfaces, which can remotely control and real-time monitor the working status of multiple devices
操作系统	具有Windows / Mac系统控制软件	Operating system	Windows/Mac system
场景	可储存250 组预设数据	Scenario	250 sets of preset data can be stored
电源	220-240V AC , 50/60Hz	Power supply	220-240V AC , 50/60Hz
尺寸(H×W×D)	44×483×250mm	Dimension (H×W×D)	44×483×250mm
重量	3.05kg	Weight	3.05kg



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