



TENDZONE
DIGITAL AUDIO PROCESSOR

TYCHO Digital Signal Processor

TYCHO T 880/C , TYCHO T1212/C



AEC AFC AGC TEL SPM AM M-LAN,

Technical Indicators

Type	T880/C	T1212/C
Bracket height	1U	1U
Input channel	8	12
Output channel	8	12
Amplifier module	—	—
Wireless mics	—	—
AEC	Support	Support
Telephone	—	—
Feedback Suppression	Support	—
Voice tracking	Support	—
Product Features	Connection: Balance output, use bare wire interface terminal	
	Hardware structure:• 24 bit/48kHz A/D、 D/A conversion, up to 96kHz sampling rate; Telephone Interface capabilities• 64bit processing core with up to two high-speed DSP processing TIL138 3648MIPS/2746MFLOPS ;	

	<p>Basic function: •DSP audio processor; input : pre-amplifier、 generator、 expander、 Compressor、 5 band PEQ、 mixer; • output : Speaker Processor (8 band PEQ、 latency、 crossover、 high pass filter、 low pass filter) limiter ; ducker ; full function matrix mixing ; • build-in digital automatic mixing ; • M-LAN multi-function data transmission and control port ; • bulid-in automatic voice tracking ; • RS-232 bi-directional serial control interface used to control other external equipment such as video matrix and other RS-232 devices or receive the command from a third-party RS-232, such as AMX、 Crestron and etc ; RS-485 camera control port ;</p> <p>• GPIO programmable control port ; • support 8 groups of scene preset.</p> <p>Software : intuitive and graphical software control interface, which can work in 32bit/64bit , windows 2000 /XP /windows 7</p>	
Electric parameter	Sampling rate :	48KHz/24bit
	A/D dynamic range :	$\cong 113\text{dB}$
	Phantom power :	DC 48V
	Input CMRR @60Hz:	103dBu @ +20dBu , 60Hz
	Input inpedance:	20k Ω balance , 10k Ω unbalance
	Maximum input gain :	54dB
	Output quantization:	48KHz/24bit
	D/A dynamic range :	113dB
	Input-to-output dynamic range :	113dB
	Channel isolation:	113dB
	Frquency response :	20 ~ 20kHz ($\pm 0.5\text{dB}$)
	THD+N:	$\leq 0.005\%$ @1kHz , +4dBu
	Output inpendence:	100 Ω
	Maximum output:	20dBu
	Operating power supply :	AC 110V~230V AC , 50Hz /60Hz
Operating temperature :	0 - 40 $^{\circ}\text{C}$	