



**TENDZONE**  
DIGITAL AUDIO PROCESSOR

## TYCHO Digital Signal Processor

TYCHO T 440/TC 、 TYCHO T 880/TC 、 TYCHO T 1208/TC、 TYCHO T 1212/TC、



AEC AFC AGC TEL SPM AM M-LAN

### Technical Indicators

Type	T440/TC	T880/TC	T1208/TC	T1212/TC
Bracket height	1U	1U	1U	1U
Input channel	4	8	12	12
Output channel	4	8	8	12
Amplifier module	---	---	---	---
Wireless mics	---	---	---	---
AEC	Support	Support	Support	Support
Telephone	Support	Support	Support	Support
Feedback Suppression	Support	Support	Support	Support
Voice tracking	Support	Support	Support	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; • build-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; • 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>	
<p><b>Electric parameter</b></p>	<p>Sampling rate:</p>	<p>48KHz/24bit</p>
	<p>A/D dynamic range:</p>	<p>≥113dB</p>
	<p>Phantom power:</p>	<p>DC 48V</p>
	<p>Input CMRR @60Hz:</p>	<p>103dBu @ +20dBu , 60Hz</p>
	<p>Input impedance:</p>	<p>20k Ω balance, 10k Ω unbalance</p>
	<p>Maximum input gain:</p>	<p>54dB</p>
	<p>Output quantization:</p>	<p>48KHz/24bit</p>
	<p>D/A dynamic range:</p>	<p>113dB</p>
	<p>Input-to-output dynamic range:</p>	<p>113dB</p>
	<p>Channel isolation:</p>	<p>113dB</p>



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Frquency response :	20~20kHz ( $\pm 0.5$ dB)
THD+N:	$\leq 0.005\%$ @1kHz, +4dBu
Output inpendence:	100 $\Omega$
Maximum output:	20dBu
Operating power supply:	AC 110V~230V AC, 50Hz /60Hz
Operating temperature:	0 - 40 $^{\circ}$ C