



TENDZONE

TIMON Series

DIGITAL AUDIO PROCESSOR



BGM, Paging, & Sound Reinforcement Applications

The TIMON Series from Tendzone combines an array of powerful audio DSP tools for sound reinforcement in a very cost-effective package. The TIMON Series DSP's come in 4 size configurations, ranging from 4x4 to 16x16.

TIMON Series DSP's feature both ducking and ambient noise reduction. The Tendzone ambient noise reduction function is extremely useful in environments where changing background and crowd noise necessitate automatic output level adjustments to preserve audibility. Both the ducking and ambient noise reduction features offer an extensive degree of configuration and parameter settings, via the Tend-Ware GUI software.

All Tendzone DSP's come packed with a standard toolkit of powerful processing and integration features. AGC, compressor/limiter, expander, and matrix mixing are core features to all models. (A 5-band parametric EQ is standard on all size configurations, except 4x4). Tendzone's versatile speaker processor provides 8-band EQ, delay, crossover, and filtering. All Tendzone DSP's include room noise reduction, which provides for discreet removal of certain persistent ambient background sounds. In addition, all DSP models come with a standard Tendzone bonus feature: PTZ camera voice-tracking. A dedicated RS-485 port provides bi-directional commands to most robotic PTZ cameras, allowing for mic-triggered recall of camera shot presets. All of these functions are configured using Tendzone's highly-intuitive Tend-Ware GUI interface. Tendzone DSP's are backed by a standard 3-year parts and labor warranty.

Tendzone offers multiple control options for system integrators. Standard bidirectional control via RS-232, and GPI allows all Tendzone DSP's to work with standard third-party control systems, including AMX and Crestron. Local room control is also available via Tendzone's array RC-LINK wallplate controllers. These units provide bi-directional control and use PoE power, via standard Ethernet cabling. Tendzone DSP products are designed to be integrator-friendly, in terms of installation and field configuration.

The TIMON Series of audio DSP's are serious tools for audio integrators who require high system stability, robust performance, and an extensive feature set - all at a price that preserves the bottom line.

TIMON Series

Available in 4x4, 8x8, 12x8, & 16x16

SERIES FEATURES

Ambient Noise Compensation
Ducking

STANDARD FEATURES

AGC, Expander, Compressor/Limiter
*5-Band Parametric EQ (Except 4x4)
31-Band Graphic EQ (Only in 4x4)
Matrix-Mixer
Speaker Processor (EQ, Delay, Crossover, Filters)
Room Noise Reduction
PTZ Camera Voice-Tracking
RS-232 / GPI
8 Presets
Tend-Ware Intuitive GUI Software
AMX & Crestron Compatible
3-Year Warranty

OPTIONS

RC-LINK Panels
*In All Sizes Except 4x4

TIMON SPECIFICATIONS

TIMON MODELS				
	TIMON 8	TIMON 16	TIMON 20	TIMON 32

GENERAL	
GAIN	UNBALANCED OUTPUT:-6dB;BALANCED OUTPUT:0dB
FREQ RESPONSE	20-20,000Hz(+/-0.5dB)
THD+NOISE	<0.005% @ 1kHz+4dBu
S/N RATIO	112dB,20-20,000Hz
CROSSTALK	112dB

AUDIO INPUTS				
INPUTS	4	8	12	16
CONNECTOR	CAPTIVE SCREW TERMINAL (3.5MM/3-POLE)			
IMPEDANCE	20K OHM (BALANCED) 10K OHM (UNBALANCED)			
NOMINAL LEVEL	0.775V			
MAX INPUT GAIN	54dB			
CMRR @60Hz	105dBu @ +20dBu (60Hz)			
PHANTOM POWER	YES (+48V DC)			

AUDIO OUTPUTS				
OUTPUTS	4	8	8	16
CONNECTORS	CAPTIVE SCREW TERMINAL (3.5MM/3-POLE)			
IMPEDANCE	100 OHMS			
MAX OUTPUT	20dBu			

AUDIO PROCESSING	
D/A CONVERSION	SAMPLING: 24BIT/48KHz
A-D DYN RANGE	≥ 116dB
D-A DYN RANGE	118dB
QUANTIZATION	48KHz/24BIT
I/O DYN RANGE	112dB
NOISE CANCELLATION	UP TO 30dB/SOFTWARE SELECTABLE

PTZ CAMERA VOICE TRACKING	
INCLUDED	YES
RS-232/485 & VISCA SUPPORT	YES

SERIAL CONRTOL	
RS-232 PORT	1
CONNECTOR	DB-9(F)
RS-485 PORT	1(FOR CAMERA CONTROL)
CONNECTOR	DB-9(F)
BAUD RATE AND PROTOCOL	300-57600 BAUD (9600 BAUD IS DEFAULT), 8 DATA BITS, 1 STOP BIT, NO PARITY,NO FLOW CONTROL
PIN CONFIGURATION	RS232:RX-PIN2,TX-PIN3, GND-PIN5 RS485:A-PIN3, B-PIN4, GND-PIN5

GENGERAL PURPOSE INTERFACE (GPIO)	
GPIO	16 DEVICES, VIA DC VOLTAGE. (8 IN & 8 OUT). TWO AVAILABLE INPUT VOLTAGES(3.3V-5V & 12V). ONE OUTPUT VOLTAGE (3V)
CONNECTOR	DB-25(F)

TIMON MODELS				
	TIMON 8	TIMON 16	TIMON 20	TIMON 32

PRESETS	
NUMBER	UP TO 8 AVAILABLE PRESETS
CONFIGURATION	VIA TENDONE TEND-WARE

TENDZONE RC-LINK PANEL/M-LAN SUPPORT	
INCLUDED	YES
RC-LINK PORTS	1
M-LAN PORTS	1

SOFTWARE SUPPORT/ COMPATIBILITY	
TEND-WARE	YES
WINDOWS 7/8	YES
THIRD-PARTY CONTROL	YES,VIA STANDARD RS-232 & ASCII COMMAND STRINGS (COMPATIBLE WITH AMX,CRESTRON, EXTRON, ETC)

HARDWARE	
CPU	TEXAS INSTRUMENTS OMAP-L138 C6000
TYPE	DSP+ARM (DUAL CORE)
PROCESSORS	2

POWER & COOLING	
POWER	110-230V AC @ 50/60 Hz
CONSUMPTION	60 WATTS
OPERATING TEMPERATURE	0-40 °C/32-104 °F
HUMIDITY	10-90%,NON-CONDENSING
COOLING TYPE	CONNECTION & FAN
MOUNTING	1RU(19x1.75"-EIA STANDARD)

PHYSICAL				
DIMENSIONS	19x9.85x1.75(in.)/483x250x44(mm)			
PRODUCT WEIGHT	6.13LBS (2.78KG)	6.26LBS (2.84KG)	6.48LBS (2.94KG)	7.03LBS (3.19KG)
SHIPPING WEIGHT	10.0LBS (4.54KG)	10.14LBS (4.6KG)	10.36LBS (4.7KG)	10.91LBS (4.95KG)

REGULATORY COMPLIANCE-SAFETY	
CE	YES
REGULATORY COMPLIANCE-EM/EMC	
CE	YES
REGULATORY COMPLIANCE-ENVIROMENTAL	
ROHS	YES

WARRANTY	
LENGTH	3YEARS
COVERAGE	PARTS & LABOR
TERMS	SEE TERMS & CONDITIONS AT WWW.TENDZONE.COM



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