

T Series

2/4-Channel High-Performance Amplifier Platform with DSP and Dante™

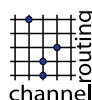


- ☒ Touring
☐ Installation

2 or 4
channels



DSP
onboard



Armonía-Plus
System Manager



The T Series is a very flexible and cost effective amplifier platform loudspeaker processor. The range consists of 2 and 4 channel models supporting channel powers from 750 W to 3000W.

All models deliver the same high peak voltage allowing high SPL with single 8/16 ohm cabinets on all models. The high voltage is also good for sharing power between the channels for applications such as bi-amped loudspeakers or subwoofers with passive tops.

The amplifiers feature input via Dante, AES3 and analog. The Dante and AES3 solutions are optimized for daisy-chained distribution of 2-channel

audio for distribution to many amplifiers without the need for external switches/repeaters/splitters. A simple Dante system has a daisy chain with the mixing console at one end and a WiFi access point at the other end and the amplifiers in-between.

The loudspeaker processing sets a new benchmark for cost-effective amplification for small and medium sized systems and stage monitors.

The T Series can be controlled and configured in different ways.

- Full control with a PC running Armonía. Here it can be in mixed groups with advanced EQ together with

other Powersoft products.

- Control from the front panel display for things like preset recall (also per output), gain, delay, mute. This makes it very easy to use for small systems in a rental company. The display also shows the available headroom with easy to read numbers in dB as well as other status monitoring.

- Web app. Use any device with a browser (e.g. a tablet) and access the amplifier via an external WiFi access point to control EQ etc.

- ▶ Group controllable advanced EQ with raised cosine filters
- ▶ Large preset library
- ▶ Preset compatibility with X Series
- ▶ Very long FIR filters (42.6 ms)

T Series

2/4-Channel High-Performance Amplifier Platform with DSP and Dante™

Specifications

Channel Handling		
	T302 - T602	T304 - T604
Number of output channels	2 (2 Speakon NL4)	4 (2 Speakon NL4)
	(bridgeable per channel pair)	
Number of input channels		
Analog	2 XLR (female) 2 XLR LINK (male)	4 XLR (female)
Digital	AES3 - 1 XLR (female) LINK - 1 XLR (male)	

Audio						
	Gain	T302	T602	T304	T604	
Input sensitivity @ 8 Ω	32 dB	2.57	2.57	2.57	2.57	V _{rms}
S/N (20 Hz - 20 kHz @ 8 Ω)		>110	>110	>110	>110	dB(A)
Max input level		24 dBu				
Frequency Response		20 Hz - 20 kHz +/- 0.5 dB				
Crosstalk (1 kHz)		<-70 dB				
Input impedance		20kΩ Balanced				
CMRR		>65 dB				
THD+N (from 0.1 W to Half Power)		< 0.1% (typical < 0.05%)				
SMPTE IMD (from 0.1 W to Half Power)		< 0.1% (typical < 0.05%)				
Output impedance at 100 Hz		26 mΩ				

DSP	
AD converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets	256 MB (RAM) plus 512 MB flash for presets
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

Output Stage	T302	T602	T304	T604
per channel @ 8 Ω (symmetrical)*	1200 W	1300 W	750 W	1250 W
per channel @ 4 Ω (symmetrical)*	1500 W	2500 W	750 W	1500 W
per channel @ 2 Ω (symmetrical)*	1500 W	3000 W	750 W	1500 W
per channel @ 8 Ω (asymmetrical)**	1300 W	1400 W	1200 W	1250 W
per channel @ 4 Ω (asymmetrical)**	2200 W	2500 W	1200 W	2100 W
per channel @ 2 Ω (asymmetrical)**	1600 W	3800 W	1200 W	1600 W
@ 4 Ω Bridged	3000 W	6000 W	1500 W	3000 W
@ 8 Ω Bridged	3000 W	5000 W	1500 W	3000 W
Maximum unclipped output voltage	145 V _{peak}	145 V _{peak}	145 V _{peak}	145 V _{peak}
Maximum output current	50 A _{peak}	100 A _{peak}	50 A _{peak}	50 A _{peak}

*Calculated by driving and loading symmetrically all the channels.

**Calculated by driving all channels, but with every second channel at -6dB

Power & Thermal	T302	T602	T304	T604
Power	32	32	32	32
Idle Current Draw	0.5	0.6	0.5	0.6
Thermal Loss	110	110	110	110
Power	516	834	537	1045
Idle Current Draw	5.4	8.7	5.6	11.0
Thermal Loss	487	705	550	999
Power	32	32	32	32
Idle Current Draw	0.2	0.3	0.3	0.3
Thermal Loss	110	110	110	110
Power	524	846	540	1028
Idle Current Draw	4.0	4.2	2.6	4.9
Thermal Loss	513	745	558	933
Power supply	Universal regulated switch mode with PFC, SRM			
Nominal voltage (±10%)	100-240 VAC @ 50-60Hz			
Operating Voltage	90-264 VAC @ 50/60 Hz IEC C20 inlet (20 A max)			
AC Mains connector	region-specific power cord provided			

Networking	
Standards compliance	auto sensing Gigabit Ethernet IEEE 802.3ab
Supported topologies	Star
Remote interface	Armonia Pro Audio Suite™

Construction	T302	T602	T304	T604
Dimensions	484 x 405 x 44.5 mm (19 x 16 x 1.75 in)			
Weight	6.7 kg	7.5 kg	7.1 kg	7.5 kg

2 Channel - T302, T602



4 Channel - T304, T604

