

Specifications

NetPA Series

Audio

Crosstalk >75 dB @ 1 kHz

Audio input

Number/signal type

NetPA 502 AT 1 stereo or 2 mono

NetPA 1001-70V AT 1 mono

Connectors 1 RJ-45

Maximum level 0 dBFS (digital)

Audio processing

D/A conversion 24 bit, selectable sampling rate

AT ports – audio transport

Transmission type Dante

Connectivity 1 RJ-45 connector, 1-port 100 Mbps to Dante interface

Inputs

NetPA 502 AT 2 channels Rx

NetPA 1001-70V AT 1 channel Rx

Audio format 24-bit uncompressed, selectable at 44.1, 48, 88.2, and 96 kHz sampling rate

Latency Deterministic, based on user selection: 2.0 ms (default), 5.0 ms

Audio line output

Number/signal type

NetPA 502 AT 2 channels, balanced/unbalanced

NetPA 1001-70V AT 1 channel, balanced/unbalanced

Connectors

NetPA 502 AT (1) 3.5 mm captive screw connector, 6 pole

NetPA 1001-70V AT (1) 3.5 mm captive screw connector, 3 pole

Impedance 50 ohms unbalanced, 100 ohms balanced

Maximum level

(at 0 dBFS digital input) >+15 dBu balanced; +9 dBu unbalanced

Frequency response 20 Hz to 20 kHz, ± 1 dB

THD + Noise 0.03% @ 1 kHz at nominal level,

0.3% @ 20 kHz at nominal level

S/N >90 dB, at maximum output (unweighted)

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio speaker output

Number/signal type

NetPA 502 AT	2 channels, 4 or 8 ohms
NetPA 1001-70V AT	1 channel, 70 V

Connectors

NetPA 502 AT	(1) 5.08 mm screw lock captive screw connector, 4 pole
NetPA 1001-70V AT	(1) 5.08 mm screw lock captive screw connector, 2 pole

NOTE: These connectors accept wires of 22 AWG to 12 AWG.

Load impedance

NetPA 502 AT	4 ohms minimum
NetPA 1001-70V AT	50 ohms minimum

Amplifier type Class D

Output power

NetPA 502 AT	50 watts rms per channel, 4 ohms, 1 kHz, 0.1% THD 25 watts rms per channel, 8 ohms, 1 kHz, 0.1% THD
NetPA 1001-70V AT	100 watts rms, 70 V, 1 kHz, 0.1% THD

Frequency response

NetPA 502 AT	20 Hz to 20 kHz, +1/-3 dB @ 1 watt
NetPA 1001-70V AT	20 Hz to 20 kHz, +1/-3 dB @ 1 watt

THD + Noise <0.1% @ 1 kHz, 3 dB below clipping

S/N >90 dB, 20 Hz - 20 kHz, unweighted

High pass filter

NetPA 1001-70V AT 80 Hz, 12 dB per octave rolloff for 70 V line output (switch selectable)

Communications – amplifier

Control port (1) 3.5 mm captive screw connector, 2 pole

Pin configurations

Standby power control (contact closure)
Pin 1 = standby, pin 2 = Gnd

General

Power supply Internal
Input: 100-240 VAC, 50-60 Hz, 0.5 A

Power consumption and thermal dissipation

NetPA 502 AT

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	8Ω	0.3	14.6	8.3	28	0.2	17	10.7	36
	4Ω	0.4	22.3	9.8	33	0.3	24	11.7	40
Quiescent (idle)		0.1	7.4	7.4	25	0.1	9.9	9.9	34
Standby		<0.1	<2	<2	<6	<0.1	<2	<2	<6

NetPA 1001-70V AT

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	70 V	0.4	22.7	10.2	35	0.3	24.1	11.6	39
Quiescent (idle)		0.1	7.6	7.6	26	0.1	9.2	9.2	31
Standby		<0.1	<2	<2	<6	<0.1	<2	<2	<6

- Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +104 °F (0 to +40 °C) / 10% to 90%, noncondensing
- Cooling Convection, no vents, with internal heat sink
- Protection Clip limiting, thermal, short circuit, DC output
- Indication Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or short circuit
- Mounting
 - Rack mount..... Yes, with optional 1U rack shelf
 - Furniture mount Yes, with optional under-desk mounting kit
- Enclosure type Metal
- Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)
(4.3 cm H x 22.1 cm W x 24.1 cm D)
- Product weight
 - NetPA 502 AT 2.6 lbs (1.2 kg)
 - NetPA 1001-70V AT 2.6 lbs (1.2 kg)
- Vibration ISTA 1A in carton (International Safe Transit Association)
- Regulatory compliance
 - Safety CE, c-UL, UL
Meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.
 - EMI/EMC CE, C-tick, EN 55103-1, EN 55103-2, FCC Class B, ICES, VCCI Class B
 - Environmental..... Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), RoHS, WEEE.
- Warranty 3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

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