

Specifications

NetPA U 8001 SUB

Audio system

Frequency response	
Line in to line out	20 Hz to 20 kHz, ± 0.5 dB
Line in to digital out	20 Hz to 20 kHz, ± 0.5 dB
Digital in to line out	20 Hz to 20 kHz, ± 0.5 dB
Through amplifier	20 Hz to 1 kHz, ± 1 dB
THD + Noise	
Through DSP	<0.01% @ 1 kHz at maximum output level
Through amplifier	0.1% @ 1 kHz at 3 dB below clipping
S/N	
Line in to line out	90 dB, 20 Hz to 20 kHz at maximum output (unweighted)
Line in to speaker out	100 dB, 20 Hz to 1 kHz at maximum output (unweighted)
Line in to digital out	90 dB, 20 Hz to 20 kHz at maximum output (unweighted)
Digital in to line out	100 dB, 20 Hz to 20 kHz at maximum output (unweighted)
Digital in to speaker out	100 dB, 20 Hz to 1 kHz at maximum output (unweighted)
Crosstalk	<-90 dB @ 1 kHz, fully loaded
Volume control	-100 dB to 0 dB (control 0 to 100 in 0.1 dB steps)

Audio input (line inputs)

Number/signal type	2 mono, line, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole, mono, balanced/unbalanced
Impedance	>10k ohms unbalanced/balanced
Nominal level	+4 dBu, -10 dBV adjustable via input gain
Maximum level	+21 dBu at rated THD+N when input gain is set to 0 dB
Input sensitivity	
Line input	+21 dBu, all gains / attenuators in signal path set to 0 dB
AT input	0 dBFS, all gains / attenuators in signal path set to 0 dB
CMRR	>60 dB typical
Input gain adjustment	-18 dB to +24 dB in 0.1 dB steps, adjustable per input

Audio line output

Number/signal type	2 mono, line, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	100 ohms balanced, 50 ohms unbalanced
Gain error	± 0.1 dB channel to channel
Maximum level (Hi-Z)	>+21 dBu balanced; +15 dBu unbalanced

Audio processing

D/A conversion	24 bit, 48 kHz
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AT port — Audio Transport

Transmission type	Dante/AES-67, software selectable
Connectivity	1 RJ-45 connector, 1-port 100 Mbps to Dante interface
Inputs	2 channels Rx (2 flows, unicast or multicast)
Outputs	2 channel Tx (2 flows, unicast or multicast)
Audio format	24-bit uncompressed, selectable at 44.1, 48, 88.2, and 96 kHz sampling rate
Latency	Deterministic, based on user selection: 1.0 ms (default), 2.0 ms, 5.0 ms

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio speaker output

Number/signal type	1 channel, 2, 4, or 8 ohms
Connector	(1) 5 mm screw lock captive screw connector, 2-pole

NOTE: This connector accepts wires of 22 AWG to 12 AWG

Load impedance	2 ohms minimum
Amplifier type	Class D
Output power	
8 ohms	800 watts, 8 ohms, 100 Hz, <0.1% THD
4 ohms	650 watts, 4 ohms, 100 Hz, <0.1% THD
2 ohms	325 watts, 2 ohms, 100 Hz, <0.1% THD

Control/remote

Control port	(1) 3.5 mm captive screw connector, 5 pole
Serial	
Serial host control port	1 bidirectional RS-232
Baud rate and protocol	38400 baud, 8 data bits, 1 stop bit, no parity
Pin configuration	Pin 1 = Tx, Pin 2 = Rx, Pin 3 = Gnd
Standby	
Standby power control	Contact closure
Pin configuration	Pin 4 = Gnd, Pin 5 = Standby
USB control port	1 rear panel female USB Mini-B
USB standards	USB 2.0, high speed
Ethernet host port	1 RJ-45 female connector
Ethernet data rate	10/100Base-T
Program control	Configuration program for Windows®, Extron Simple Instruction Set (SIS™)

General

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

Power consumption and thermal dissipation

NetPA U 8001 SUB		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	8 Ω	1.1	121	21	72	0.6	118.7	18.7	64
	4 Ω	1.0	104.7	23.5	80	0.6	102.8	21.6	74
	2 Ω	0.6	61.1	20.5	70	0.4	60	19.4	66
Quiescent (idle)		0.2	10.4	10.4	35	0.2	10.2	10.2	35
Standby		<0.1	<4	<4	<14	<0.1	<4	<4	<14

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Temperature/humidity	
Storage	-40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing
Operating	+32° to +122° F (0° to +50° C) / 10% to 90%, non-condensing
Cooling	Convection, no vents
Protection	Clip limiter, thermal, short circuit, DC output
Indication	Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit. Over Temp LED indicates when the amplifier exceeds the recommended operating temperature for optimal unit longevity. Power LED indicates power state, DC output protection (see <i>NetPA U 8001 SUB User Guide</i> for details).
Mounting	
Rack mount.....	Yes, with included brackets or optional 1U rack shelf
Subwoofer mount.....	Yes, with optional mounting hardware (included with SF 10C SUB)
Enclosure type	Metal
Enclosure dimensions	1.7" H x 8.7" W x 10.5" D (1U high, half rack wide) (43 mm H x 221 mm W x 267 mm D)
Product weight	4.2 lbs (1.9 kg)
Regulatory compliance.....	CE, c-UL, UL, CCC, C-tick, EN55032, EN55035, FCC Class B, ICES, KC, VCCI Class B, RoHS, WEEE Meets UL 62368-1 BSEN 62368-1. UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release. Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier).
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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