

A&E SPECIFICATIONS

microNXAMP4



microNXAMP4X1-T

The amplifier shall be a class D four-channel power amplifier. The amplifier's power supply shall have an active power factor corrector (PFC). The power amplifier shall be capable of operation from a 100-240V, 50/60 Hz line. One universal power supply is employed to drive all amplifiers channels. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 750W per channel with a 2 ohm load, 1000 W per channel with a 4 ohm load, 750W per channel with a 8 ohm load, 1500 W two channels bridged into a 4 ohm load, 2000 W two channels bridged into a 8 ohm load, 1500 W two channels parallel into a 4 ohms load, 800 W two channels parallel into a 8 ohms load, 3000 W one channel bridged parallel into a 2 ohm load, 4000 W one channel bridged parallel into a 4 ohm load and 3000 W one channel bridged parallel into a 8 ohms load. Typical harmonic distortion (THD+N) shall be 0.05% on a flat setup, 3dB below amplifier clip. Frequency response shall be from 10 Hz to 20 kHz (+/-1 dB). The balanced inputs shall have an impedance of 20k ohm. The dynamic range shall be 110 dB unweighted. The latency shall be 580µs on a flat setup. Built-in protection circuitry shall monitor output voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures.

The amplifier shall employ forced-air cooling with temperature-controlled fan, variable in speed. Air flow shall be from front to rear.

The front panel shall have a 1.8" screen with a 128 x 160 resolution and a stand-by power switch with LED ring. The amplifier shall have a native 100 Mb Ethernet port which allows remote control. Rear panel input connectors shall be a 3-pin XLR connector for each channel and 4 Dante™ inputs from the remote control RJ45 port. Rear panel output connectors shall be four NL4 SPEAKON connectors. Rear panel power supply should be one IEC C13 socket.

The amplifier shall include two 64-bit multicore DSPs with 24-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel gain, routing, delay, 8-band parametric EQ, and input patch. It shall also allow the user to select on each channel the NEXO speaker of its choice and its crossover frequency.

A remote-control software or hardware can access these parameters using standard UDP protocols.

The amplifier shall have a standby power consumption as low as 2 Watts.

The amplifier shall conform to the latest EU RoHS hazardous substances and Reach directives. The amplifier shall be certified to meet cETLus, CB (CE), CCC, PSE, KC electrical safety certifications and CE, FCC EMC certifications.

It shall use one unit of standard rack-space, and its dimensions shall be 480 mm W x 502 mm D x 44.5 mm H (18.89" W x 20" D x 1.75" H). Weight shall be 7.5 kg (16.5 lbs).

The amplifier shall be NEXO microNXAMP4X1-T.

microNXAMP4X1-I

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The amplifier shall employ forced-air cooling with temperature-controlled fan, variable in speed. Air flow shall be from front to rear.

The front panel shall have a 1.8" screen with a 128 x 160 resolution and a stand-by power switch with LED ring. The amplifier shall have a native 100 Mb Ethernet port which allows remote control. Rear panel input connectors shall be one WAGO 2734-1112 connector with Push-in CAGE CLAMP® and 4 Dante™ inputs from the remote control RJ45 port. Rear panel output connectors shall be one WAGO 831-1108 connector with Push-in CAGE CLAMP®. Rear panel power supply should be one IEC C13 socket.

The amplifier shall include two 64-bit multicore DSPs with 24-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel gain, routing, delay, 8-band parametric EQ, and input patch. It shall also allow the user to select on each channel the NEXO speaker of its choice and its crossover frequency.

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The amplifier shall be NEXO microNXAMP4X1-I.

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