EN5148-01-CM

A&E SPECIFICATIONS

NXAMPmk2

NXAMP4X4MK2

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. Quad power supply transformers are employed. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 4500 W per channel with a 2 ohm load, 3300 W per channel with a 4 ohm load, 1900 W with an 8 ohm load, 9000 W two channels bridged into a 4 ohm load, and 6600 W two channels bridged into an 8 ohm load. Typical harmonic distortion (THD+N) shall be 0.01% at 20 Hz - 20 kHz, half power. Frequency response shall be from 20 Hz to 20 kHz (max +1dB, typ+0 dB, min -1 dB) at 8 ohms. The balanced inputs shall have a minimum impedance of 20k ohm. The input sensitivity shall be +18 dBu. The unweighted signal to noise ratio over the range of 20 Hz – 20 kHz shall be 110dB, referenced to full output. Built-in protection circuitry shall monitor voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures exceeding 100° C.

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

The front panel shall have a 4.3'' touchscreen with a 480 x 272 resolution and a rotary encoder. Rear panel input connectors shall be a 3-pin XLR connector for each channel and additional input connectors via the optional expansion cards. The XLR input shall be wired with pin 2 hot. Rear panel output connectors shall be four NL4 SPEAKON connectors and additional output connectors via the optional expansion cards. Rear panel power supply should be two POWERCON connectors. The amplifier shall have a native dual Ethernet card which allows remote control. Moreover, extension cards shall allow four digital audio inputs to the amplifier among the following formats: Ethersound™, Dante™ or AES/EBU.

A GPIO connector shall provide digital communication used for sequential start up, amplifier monitoring or remote control and speakers' impedance fault indication, plus connection to an optional view-meter unit. A RS-232 port shall allow the connection to external automatic output power patching unit. The amplifier shall include three 64-bit multicore DSP with 32-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel volume, delay, gain, ArrayEQ, 8-band parametric EQ, input patch (each of the four analog input and eventually the four analog output can be freely assigned and summed for each channel, with analog backup option and an alignment system for level and delay), GPIO modes, load monitor (setting pilot tone frequency and level, plus low and high impedance limit for each channel for alert triggering). It shall also allow the user to select on each channel the NEXO speaker of its choice, including bridge mode and crossover frequency.

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

The amplifier shall conform to the latest EU RoHS hazardous substances and WEEE directives. The amplifier shall be certified to meet Underwriters Laboratories Inc.'s safety requirement UL60065 and Intertek ETLSEMKO standard EM60065:2014 at 2 ohms.

It shall use three standard rack-spaces and its dimensions shall be 480 mm W x 502 mm D x 132 mm H (18.89" W x 19.76" D x 5.2" H). Weight shall be 24.9 kg (54.9 lbs).

The amplifier shall be NEXO NXAMP4x4MK2.

NXAMP4x2MK2

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. Quad power supply transformers are employed. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 2500 W per channel with a 2 ohm load, 1900 W per channel with a 4 ohm load, 1200 W with an 8 ohm load, 5000 W two channels bridged into a 4 ohm load, and 3800 W two channels bridged into an 8 ohm load. Typical harmonic distortion (THD+N) shall be 0.01% at 20 Hz - 20 kHz, half power. Frequency response shall be from 20 Hz to 20 kHz (max +1dB, typ+0 dB, min -1 dB) at 8 ohms. The balanced inputs shall have a minimum impedance of 20k ohm. The input sensitivity shall be +16 dBu. The unweighted signal to noise ratio over the range of 20 Hz – 20 kHz shall be 110dB, referenced to full output. Built-in protection circuitry shall monitor voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures exceeding 100° C.

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

The front panel shall have a 4.3'' touchscreen with a 480 x 272 resolution and a rotary encoder. Rear panel input connectors shall be a 3-pin XLR connector for each channel and additional input connectors via the optional expansion cards. The XLR input shall be wired with pin 2 hot. Rear panel output connectors shall be four NL4 SPEAKON connectors and additional output connectors via the optional expansion cards. Rear panel power supply should be one POWERCON connector. The amplifier shall have a native dual Ethernet card which allows remote control. Moreover, extension cards shall allow four digital audio inputs to the amplifier among the following formats: Ethersound™, Dante™ or AES/EBU.

A GPIO connector shall provide digital communication used for sequential start up, amplifier monitoring or remote control and speakers' impedance fault indication, plus connection to an optional view-meter unit. A RS-232 port shall allow the connection to external automatic output power patching unit. The amplifier shall include three 64-bit multicore DSP with 32-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel volume, delay, gain, ArrayEQ, 8-band parametric EQ, input patch (each of the four analog input and eventually the four analog output can be freely assigned and summed for each channel, with analog backup option and an alignment system for level and delay), GPIO modes, load monitor (setting pilot tone frequency and level, plus low and high impedance limit for each channel for alert triggering). It shall also allow the user to select on each channel the NEXO speaker of its choice, including bridge mode and crossover frequency.

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

The amplifier shall conform to the latest EU RoHS hazardous substances and WEEE directives. The amplifier shall be certified to meet Underwriters Laboratories Inc.'s safety requirement UL60065 and Intertek ETLSEMKO standard EM60065:2014 at 2 ohms.

It shall use two standard rack-spaces and its dimensions shall be 480 mm W x 502 mm D x 88 mm H (18.89" W x 19.76" D x 3.46" H). Weight shall be 16.1 kg (35.3 lbs).

The amplifier shall be NEXO NXAMP4x2MK2.

NXAMP4x1MK2

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. Quad power supply transformers are employed. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 1300 W per channel with a 2 ohm load, 900 W per channel with a 4 ohm load, 600 W with an 8 ohm load, 2600 W two channels bridged into a 4 ohm load, and 1800 W two channels bridged into an 8 ohm load. Typical harmonic distortion (THD+N) shall be 0.01% at 20 Hz - 20 kHz, half power. Frequency response shall be from 20 Hz to 20 kHz (max +1dB, typ+0 dB, min -1 dB) at 8 ohms. The balanced inputs shall have a minimum impedance of 20k ohm. The input sensitivity shall be +13 dBu. The unweighted signal to noise ratio over the range of 20 Hz – 20 kHz shall be 110dB, referenced to full output. Built-in protection circuitry shall monitor voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures exceeding 100° C.

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

The front panel shall have a 4.3'' touchscreen with a 480 x 272 resolution and a rotary encoder. Rear panel input connectors shall be a 3-pin XLR connector for each channel and additional input connectors via the optional expansion cards. The XLR input shall be wired with pin 2 hot. Rear panel output connectors shall be four NL4 SPEAKON connectors and additional output connectors via the optional expansion cards. Rear panel power supply should be one POWERCON connector. The amplifier shall have a native dual Ethernet card which allows remote control. Moreover, extension cards shall allow four digital audio inputs to the amplifier among the following formats: Ethersound™, Dante™ or AES/EBU.

A GPIO connector shall provide digital communication used for sequential start up, amplifier monitoring or remote control and speakers' impedance fault indication, plus connection to an optional view-meter unit. A RS-232 port shall allow the connection to external automatic output power patching unit. The amplifier shall include three 64-bit multicore DSP with 32-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel volume, delay, gain, ArrayEQ, 8-band parametric EQ, input patch (each of the four analog input and eventually the four analog output can be freely assigned and summed for each channel, with analog backup option and an alignment system for level and delay), GPIO modes, load monitor (setting pilot tone frequency and level, plus low and high impedance limit for each channel for alert triggering). It shall also allow the user to select on each channel the NEXO speaker of its choice, including bridge mode and crossover frequency.

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

The amplifier shall conform to the latest EU RoHS hazardous substances and WEEE directives. The amplifier shall be certified to meet Underwriters Laboratories Inc.'s safety requirement UL60065 and Intertek ETLSEMKO standard EM60065:2014 at 2 ohms.

It shall use two standard rack-spaces and its dimensions shall be 480 mm W x 502 mm D x 88 mm H (18.89" W x 19.76" D x 3.46" H). Weight shall be 15.7 kg (33.1 lbs).

The amplifier shall be NEXO NXAMP4x1MK2.

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