Architectural and Engineering Specifications Dynacord IX Series

Make: **Dynacord**

Model: **IX60:8** **8-channel DSP power amplifier, 6 kW**

The power amplifier shall have 8 channels with a total output capacity of 6000 Watts, capable of driving Hi-Z and Low-Z loads with a maximum of up to 1000 Watts on a single channel. Maximum output voltage on 8 Ohms shall be 145 Vpk, while maximum output current on 4 Ohms shall be 33 Apk. It shall provide 8 analogue inputs for line level and microphone sources with switchable 48 V phantom power in addition to 8 Dante inputs. All inputs shall provide pilot tone detection from 20 Hz to 30 kHz. The integrated DSP shall operate natively on 96 kHz consisting of input processing for the 8 mic/line and Dante inputs with adjustable hi-pass filter, noise-gate, 4 PEQs, compressor or automatic gain control, level, and mute, feeding a 16 x 16 matrix mixer with a stereo FX device. The output processing shall provide 3 operation blocks: user processing with 12 PEQs, delay up to 2000 ms, level and mute, array processing with 5 PEQs, delay up to 500 ms, level and polarity and speaker processing with 10 PEQs, FIR block with 1025 taps, cross-over up to 8th order, delay, polarity, and trim as well as a peak and RMS limiter with side-chain options. The amplifier shall provide 8 outputs to a Dante network, with options of selecting: mic/line input signals, mix busses from the matrix mixer, or amplifier output channels. The amplifier shall provide Dante primary and secondary network ports for operation in transparent, RSTP or glitch-free mode with individual supervision and state-flags, switchable between 48 kHz and 96 kHz sampling rate. Dante primary and secondary shall provide individual status flags for supervision. Remote control data shall be available through the same ports. A Euro-block-style control port shall provide potential free relay outputs for ready and fault status in addition to 3 configurable GPIOS that can be configures as logic in, logic out or analog in (0-10 V).

The amplifier shall use a digitally controlled class-D design that uses rail switching technology for enhanced energy efficiency and a power supply with digitally controlled power-factor correction to allow full performance with mains power voltages between 100 V to 240 V. The amplifier shall provide a protection package consisting of audio limiters, high temperature, DC, HF, short circuit, Back-EMF, peak current limiters, and mains over-/under voltage protection designed to maintain the audio performance and provide amplifier damages. The DSP, Dante networking and mic/line inputs shall offer the option to be powered via PoE (IEEE 802.3af, class 3) to maintain these circuits working independently of mains power. Pilot tones up to 30 kHz can be activated for the amplifier outputs and up to 20 kHz for the Dante outputs.

The amplifier shall be configured and monitored via a PC software in real time, that allows to create custom GUIs for PCs, touch panels, wall panels and iOS devices. It shall provide a logic processor for system operation, automation, control, and integration to third party devices. A control port shall provide amplifiers fault and ready status in addition to 3 configurable GPIOs. Plug-ins for media controls Q-SYS and Crestron shall be available.

The amplifier shall have a 19” 1RU housing with front to rear ventilation and allow to mount up to four amplifiers in a rack without additional space required. The rated power consumption shall be 1050 Watts and in idle mode (with audio output < 1 W) 40 Watts. Weight shall be 8.7 kg (19.3 lbs). Connectors for analog inputs and outputs as well as control port shall be on Euro-block-style connectors, mains power on IEC14 and Ethernet network on RJ45.

Architectural and Engineering Specifications Dynacord IX Series

Make: **Dynacord**

Model: **IX30:8** **8-channel DSP power amplifier, 3 kW**

The power amplifier shall have 8 channels with a total output capacity of 3000 Watts, capable of driving Hi-Z and Low-Z loads with a maximum of up to 1000 Watts on a single channel. Maximum output voltage on 8 Ohms shall be 145 Vpk, while maximum output current on 4 Ohms shall be 33 Apk. It shall provide 8 analogue inputs for line level and microphone sources with switchable 48 V phantom power in addition to 8 Dante inputs. All inputs shall provide pilot tone detection from 20 Hz to 30 kHz. The integrated DSP shall operate natively on 96 kHz consisting of input processing for the 8 mic/line and Dante inputs with adjustable hi-pass filter, noise-gate, 4 PEQs, compressor or automatic gain control, level, and mute, feeding a 16 x 16 matrix mixer with a stereo FX device. The output processing shall provide 3 operation blocks: user processing with 12 PEQs, delay up to 2000 ms, level and mute, array processing with 5 PEQs, delay up to 500 ms, level and polarity and speaker processing with 10 PEQs, FIR block with 1025 taps, cross-over up to 8^{th} order, delay, polarity, and trim as well as a peak and RMS limiter with side-chain options. The amplifier shall provide 8 outputs to a Dante network, with options of selecting: mic/line input signals, mix busses from the matrix mixer, or amplifier output channels. The amplifier shall provide Dante primary and secondary network ports for operation in transparent, RSTP or glitch-free mode with individual supervision and state-flags, switchable between 48 kHz and 96 kHz sampling rate. Dante primary and secondary shall provide individual status flags for supervision. Remote control data shall be available through the same ports. A Euro-block-style control port shall provide potential free relay outputs for ready and fault status in addition to 3 configurable GPIOS that can be configures as logic in, logic out or analog in (0-10 V).

The amplifier shall use a digitally controlled class-D design that uses rail switching technology for enhanced energy efficiency and a power supply with digitally controlled power-factor correction to allow full performance with mains power voltages between 100 V to 240 V. The amplifier shall provide a protection package consisting of audio limiters, high temperature, DC, HF, short circuit, Back-EMF, peak current limiters, and mains over-/under voltage protection designed to maintain the audio performance and provide amplifier damages. The DSP, Dante networking and mic/line inputs shall offer the option to be powered via PoE (IEEE 802.3af, class 3) to maintain these circuits working independently of mains power. Pilot tones up to 30 kHz can be activated for the amplifier outputs and up to 20 kHz for the Dante outputs.

The amplifier shall be configured and monitored via a PC software in real time, that allows to create custom GUIs for PCs, touch panels, wall panels and iOS devices. It shall provide a logic processor for system operation, automation, control, and integration to third party devices. A control port shall provide amplifiers fault and ready status in addition to 3 configurable GPIOs. Plug-ins for media controls Q-SYS and Crestron shall be available.

The amplifier shall have a 19” 1RU housing with front to rear ventilation and allow to mount up to four amplifiers in a rack without additional space required. The rated power consumption shall be 575 Watts and in idle mode (with audio output < 1 W) 40 Watts. Weight shall be 8.25 kg (18.2 lbs). Connectors for analog inputs and outputs as well as control port shall be on Euro-block-style connectors, mains power on IEC14 and Ethernet network on RJ45.

Architectural and Engineering Specifications Dynacord IX Series

Make: **Dynacord**

Model: **IX60:4** **4-channel DSP power amplifier, 6 kW**

The power amplifier shall have 4 channels with a total output capacity of 6000 Watts, capable of driving Hi-Z and Low-Z loads with a maximum of up to 1800 Watts on a single channel. Maximum output voltage shall be 145 Vpk, while maximum output current shall be 33 Apk. It shall provide 4 analogue inputs for line level and microphone sources with switchable 48 V phantom power in addition to 8 Dante inputs. All inputs shall provide pilot tone detection from 20 Hz to 30 kHz. The integrated DSP shall operate natively on 96 kHz consisting of input processing for the 8 mic/line and Dante inputs with adjustable hi-pass filter, noise-gate, 4 PEQs, compressor or automatic gain control, level, and mute, feeding a 12 x 12 matrix mixer with a stereo FX device. The output processing shall provide 3 operation blocks: user processing with 12 PEQs, delay up to 2000 ms, level and mute, array processing with 5 PEQs, delay up to 500 ms, level and polarity and speaker processing with 10 PEQs, FIR block with 1025 taps, cross-over up to 8th order, delay, polarity, and trim as well as a peak and RMS limiter with side-chain options. The amplifier shall provide 8 outputs to a Dante network, with options of selecting: mic/line input signals, mix busses from the matrix mixer, or amplifier output channels. The amplifier shall provide Dante primary and secondary network ports for operation in transparent, RSTP or glitch-free mode with individual supervision and state-flags, switchable between 48 kHz and 96 kHz sampling rate. Dante primary and secondary shall provide individual status flags for supervision. Remote control data shall be available through the same ports. A Euro-block-style control port shall provide potential free relay outputs for ready and fault status in addition to 3 configurable GPIOS that can be configures as logic in, logic out or analog in (0-10 V).

The amplifier shall use a digitally controlled class-D design that uses rail switching technology for enhanced energy efficiency and a power supply with digitally controlled power-factor correction to allow full performance with mains power voltages between 100 V to 240 V. The amplifier shall provide a protection package consisting of audio limiters, high temperature, DC, HF, short circuit, Back-EMF, peak current limiters, and mains over-/under voltage protection designed to maintain the audio performance and provide amplifier damages. The DSP, Dante networking and mic/line inputs shall offer the option to be powered via PoE (IEEE 802.3af, class 3) to maintain these circuits working independently of mains power. Pilot tones up to 30 kHz can be activated for the amplifier outputs and up to 20 kHz for the Dante outputs.

The amplifier shall be configured and monitored via a PC software in real time, that allows to create custom GUIs for PCs, touch panels, wall panels and iOS devices. It shall provide a logic processor for system operation, automation, control, and integration to third party devices. A control port shall provide amplifiers fault and ready status in addition to 3 configurable GPIOs. Plug-ins for media controls Q-SYS and Crestron shall be available.

The amplifier shall have a 19” 1RU housing with front to rear ventilation and allow to mount up to four amplifiers in a rack without additional space required. The rated power consumption shall be 1050 Watts and in idle mode (with audio output < 1 W) 40 Watts. Weight shall be 8,6 kg (19 lbs). Connectors for analog inputs and outputs as well as control port shall be on Euro-block-style connectors, mains power on IEC14 and Ethernet network on RJ45.

Architectural and Engineering Specifications Dynacord IX Series

Make: **Dynacord**

Model: **IX30:4** **4-channel DSP power amplifier, 3 kW**

The power amplifier shall have 4 channels with a total output capacity of 3000 Watts, capable of driving Hi-Z and Low-Z loads with a maximum of up to 1000 Watts on a single channel. Maximum output voltage on 8 Ohms shall be 145 Vpk, while maximum output current on 4 Ohms shall be 33 Apk. It shall provide 4 analogue inputs for line level and microphone sources with switchable 48 V phantom power in addition to 8 Dante inputs. All inputs shall provide pilot tone detection from 20 Hz to 30 kHz. The integrated DSP shall operate natively on 96 kHz consisting of input processing for the 8 mic/line and Dante inputs with adjustable hi-pass filter, noise-gate, 4 PEQs, compressor or automatic gain control, level, and mute, feeding a 12 x 12 matrix mixer with a stereo FX device. The output processing shall provide 3 operation blocks: user processing with 12 PEQs, delay up to 2000 ms, level and mute, array processing with 5 PEQs, delay up to 500 ms, level and polarity and speaker processing with 10 PEQs, FIR block with 1025 taps, cross-over up to 8^{th} order, delay, polarity, and trim as well as a peak and RMS limiter with side-chain options. The amplifier shall provide 8 outputs to a Dante network, with options of selecting: mic/line input signals, mix busses from the matrix mixer, or amplifier output channels. The amplifier shall provide Dante primary and secondary network ports for operation in transparent, RSTP or glitch-free mode with individual supervision and state-flags, switchable between 48 kHz and 96 kHz sampling rate. Dante primary and secondary shall provide individual status flags for supervision. Remote control data shall be available through the same ports. A Euro-block-style control port shall provide potential free relay outputs for ready and fault status in addition to 3 configurable GPIOS that can be configures as logic in, logic out or analog in (0-10 V).

The amplifier shall use a digitally controlled class-D design that uses rail switching technology for enhanced energy efficiency and a power supply with digitally controlled power-factor correction to allow full performance with mains power voltages between 100 V to 240 V. The amplifier shall provide a protection package consisting of audio limiters, high temperature, DC, HF, short circuit, Back-EMF, peak current limiters, and mains over-/under voltage protection designed to maintain the audio performance and provide amplifier damages. The DSP, Dante networking and mic/line inputs shall offer the option to be powered via PoE (IEEE 802.3af, class 3) to maintain these circuits working independently of mains power. Pilot tones up to 30 kHz can be activated for the amplifier outputs and up to 20 kHz for the Dante outputs.

The amplifier shall be configured and monitored via a PC software in real time, that allows to create custom GUIs for PCs, touch panels, wall panels and iOS devices. It shall provide a logic processor for system operation, automation, control, and integration to third party devices. A control port shall provide amplifiers fault and ready status in addition to 3 configurable GPIOs. Plug-ins for media controls Q-SYS and Crestron shall be available.

The amplifier shall have a 19” 1RU housing with front to rear ventilation and allow to mount up to four amplifiers in a rack without additional space required. The rated power consumption shall be 550 Watts and in idle mode (with audio output < 1 W) 26 Watts. Weight shall be 7,5 kg (16.4 lbs). Connectors for analog inputs and outputs as well as control port shall be on Euro-block-style connectors, mains power on IEC14 and Ethernet network on RJ45.

Architectural and Engineering Specifications Dynacord IX Series

Make: **Dynacord**

Model: **IX15:4** **4-channel DSP power amplifier, 1.5 kW**

The power amplifier shall have 4 channels with a total output capacity of 1500 Watts, capable of driving Hi-Z and Low-Z loads with a maximum of up to 1000 Watts on a single channel. Maximum output voltage on 8 Ohms shall be 145 Vpk, while maximum output current on 4 Ohms shall be 33 Apk. It shall provide 4 analogue inputs for line level and microphone sources with switchable 48 V phantom power in addition to 8 Dante inputs. All inputs shall provide pilot tone detection from 20 Hz to 30 kHz. The integrated DSP shall operate natively on 96 kHz consisting of input processing for the 8 mic/line and Dante inputs with adjustable hi-pass filter, noise-gate, 4 PEQs, compressor or automatic gain control, level, and mute, feeding a 12 x 12 matrix mixer with a stereo FX device. The output processing shall provide 3 operation blocks: user processing with 12 PEQs, delay up to 2000 ms, level and mute, array processing with 5 PEQs, delay up to 500 ms, level and polarity and speaker processing with 10 PEQs, FIR block with 1025 taps, cross-over up to 8^{th} order, delay, polarity, and trim as well as a peak and RMS limiter with side-chain options. The amplifier shall provide 8 outputs to a Dante network, with options of selecting: mic/line input signals, mix busses from the matrix mixer, or amplifier output channels. The amplifier shall provide Dante primary and secondary network ports for operation in transparent, RSTP or glitch-free mode with individual supervision and state-flags, switchable between 48 kHz and 96 kHz sampling rate. Dante primary and secondary shall provide individual status flags for supervision. Remote control data shall be available through the same ports. A Euro-block-style control port shall provide potential free relay outputs for ready and fault status in addition to 3 configurable GPIOS that can be configures as logic in, logic out or analog in (0-10 V).

The amplifier shall use a digitally controlled class-D design that uses rail switching technology for enhanced energy efficiency and a power supply with digitally controlled power-factor correction to allow full performance with mains power voltages between 100 V to 240 V. The amplifier shall provide a protection package consisting of audio limiters, high temperature, DC, HF, short circuit, Back-EMF, peak current limiters, and mains over-/under voltage protection designed to maintain the audio performance and provide amplifier damages. The DSP, Dante networking and mic/line inputs shall offer the option to be powered via PoE (IEEE 802.3af, class 3) to maintain these circuits working independently of mains power. Pilot tones up to 30 kHz can be activated for the amplifier outputs and up to 20 kHz for the Dante outputs.

The amplifier shall be configured and monitored via a PC software in real time, that allows to create custom GUIs for PCs, touch panels, wall panels and iOS devices. It shall provide a logic processor for system operation, automation, control, and integration to third party devices. A control port shall provide amplifiers fault and ready status in addition to 3 configurable GPIOs. Plug-ins for media controls Q-SYS and Crestron shall be available.

The amplifier shall have a 19” 1RU housing with front to rear ventilation and allow to mount up to four amplifiers in a rack without additional space required. The rated power consumption shall be 300 Watts and in idle mode (with audio output < 1 W) 26 Watts. Weight shall be 7,0 kg (15.4 lbs). Connectors for analog inputs and outputs as well as control port shall be on Euro-block-style connectors, mains power on IEC14 and Ethernet network on RJ45.