

Architectural and Engineering Specifications

Signal Processor

MRX7-D

The signal processor shall provide eight balanced mic/line inputs on Euroblock connectors and shall provide 2 stereo unbalanced line inputs on RCA connectors and shall provide eight balanced line outputs on Euroblock connectors. The mic inputs shall have 48V phantom power. The processor shall provide digital inputs and digital outputs via YDIF and Dante network audio on RJ45 connectors. The digital I/O shall allow sharing of digital audio with additional processors, amplifiers, I/O expanders and other Dante equipped audio devices. All analogue inputs and outputs shall have 24bit/48kHz/44.1kHz AD/DA converters and all internal processing shall be digital (DSP). The processor shall have digital audio card slot to make it compatible with other audio formats. The processor shall have an SD card slot for playback of MP3/WAV files. The processor shall have GPI I/O ports, RS232C and Ethernet port to allow remote control. Software shall be provided for connecting and configuring DSP system components within each hardware unit and shall be used to create the system with amplifiers, I/O expanders and remote controllers. Available system components shall include Ambient Noise Compensator (Gap type), Auto Gain Control, Compressor, Delay, Ducking, Dugan Automixer, Fader, Feedback Suppressor (Notch type), Gate, GEQ, PEQ, HPF, BPF, LPF, Limiter, Matrix Mixer, Meter, Oscillator, Polarity, Room Combiner, Room Combiner plus Automixer, Router, Speaker Processor, Speech Privacy, Source Selector. Ethernet communications shall be utilized for software control and configuration. Software shall be operated on a PC computer with network card installed, running Windows 7 or above [Windows 8/8.1/10 are supported]. After initial programming, processors may be controlled via dedicated wall mount controller DCP series, PC software, 3rd party control systems and smart devices. The NC rating of the processor shall be 23 and the heat dissipation shall be maximum 55.9 kcal/h. Dimensions (W x H x D) shall be 18.9" x 3.4" (2U) x 14.4" (480 x 88 x 366 mm) and weight shall be 14.3 lbs. (6.5 kg). The product shall conform to the latest EU RoHS hazardous substances and WEEE directives.

The product shall be Yamaha MRX7-D.