

Intelix MARC Room Combine Matrix Mixer

The matrix mixer shall provide up to 128 line level inputs and up to 32 line level outputs. All input and output connectors shall be Phoenix type connectors. Each 110 crosspoint shall provide full user control of parameters including level, ramp time, and slew rate. Ramping and ducking of crosspoint levels shall be under user control. All inputs shall be independently routable to any or all outputs. The gain adjustment of level at each crosspoint shall be from 0dB to -100dB. The matrix shall be programmable through dual RS232 ports or a TCP/IP Ethernet port. The matrix shall be capable of combining the audio in 2 to 16 different rooms. The matrix shall be capable of supporting local in-room input panels. The matrix shall be capable of automatically combining room audio via wall sensors or combining audio via a user-controlled room combine logic panel. The matrix shall be capable of supporting audio to overflow rooms. The matrix shall be capable of routing paging inputs while automatically ducking background sources. The matrix shall be controllable through an external ReO device bus. The ReO bus shall be a synchronous 485 protocol capable of supporting up to 128 remotes in a system. Remotes shall mirror each other in room combine situations and function independently when rooms are separated. Remotes shall be groupable into logical stations. ReO remote devices shall be both push-button and rotary knob devices capable of selecting audio sources and controlling audio volume levels. The matrix shall be operable either as a stand-alone device or in conjunction with computer control through an RS232 interface or a TCP/IP Ethernet port.. The matrix shall be provided with a standard Windows® graphical user interface for setup and control. A TCP/IP call out feature shall allow for remote connection via the IP LAN or WAN for diagnostics and monitoring or control purposes. An internal client authorization feature shall provide for IP security. There shall be available an eight channel optional mic/line card to provide preamplification of input signals. This card shall provide four ranges of gain from 0dB to +60dB. The gain range shall be automatically or manually selectable. The matrix shall be capable of external DC controllers via digital I/O ports. The matrix shall be capable of saving and restoring all settings in the event of a power failure. The matrix shall be capable of accepting both AC and DC power supplies. The frequency response of the matrix mixer shall be $\pm .5$ dB from 20Hz to 20kHz and +0, -3 from 10Hz to 30kHz. Crosstalk shall be better than -80dB. Crosspoint attenuation resolution shall be .4dB per step. Input impedance shall be 20K Ohms balanced and 10K Ohms unbalanced with a maximum level of +26dBu RMS. Output impedance shall be 220 Ohms unbalanced and 440 Ohms balanced, with a maximum level of +26dBu RMS.