The RAS4X module shall contain four unbalanced stereo audio inputs, four expansion port balanced inputs, and Line A and Line B inputs from externally connected RAMX2 mixers. Line A and Line B inputs from an external RAMX2 shall be selectable via on board jumpers to operate into Channels 1 to 4. Four balanced expansion constant level outputs are provided to link / daisy chain modules together or to provide outputs to other audio devices via the expansion section with no signal loss. The RASX4 shall also provide contacts for mute and priority operations. Mute operation shall mute the main output of the RASX4. Priority operation shall mute channels 1 to 3 and activate channel 4. The RASX4-MB (main board) output and volume will be controlled by the external RASX-SB wall plate module. The RASX4-SB will be capable of turning the RASX4-MB audio output off or select audio channels 1 to 4. Off channel shall be indicated by a red LED and the channels 1 to 4 by a white LED.   The RASX4-SB shall have a metal panel with sealed metal shaft volume controls with conductive plastic for longevity against vandalism and humidity. The RASX4-SB panel shall be custom engraved to label individual channels 1 to 4 and to indicate the zone the audio controller is responsible for.

The response shall be within 1.0 dB, 30 Hz to 15 kHz. The signal to noise ratio shall be 85 dB minimum, and distortion less than 0.5%. Isolation between inputs shall be 100 dB minimum. Power for RASX4-MB will be provided via two external 18Vdc power packs with amp ratings of either 560mA, 1.6A, 2.4A . Each RASX4-MB shall be able to receive power from and provide power to another RASX4-MB via onboard 4 pin connectors.
Power for the RASX4-SB and RAMX2 mixers is provided via the CAT5 cable connections on the RASX4-MB. See manual for current requirements.

The module shall be KDM Electronics Incorporated Octasound RASX4-MB and RASX4-SB