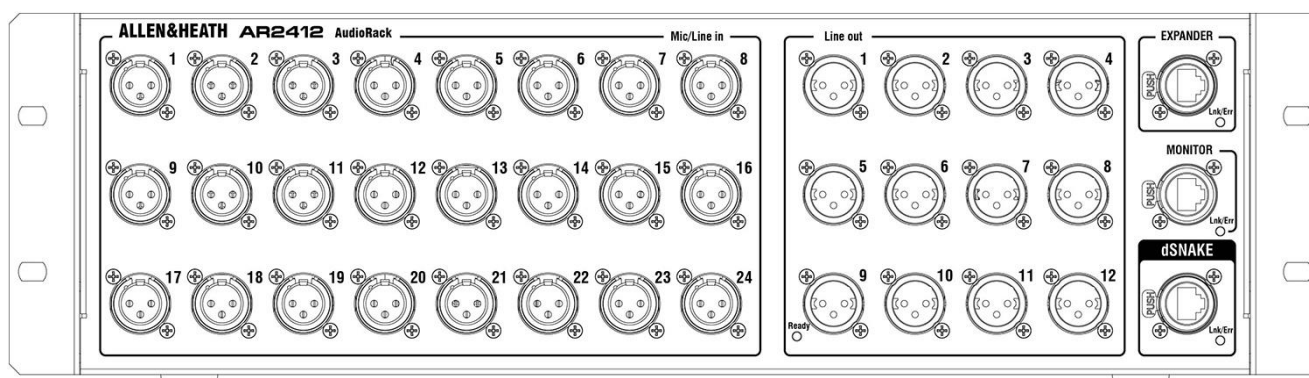


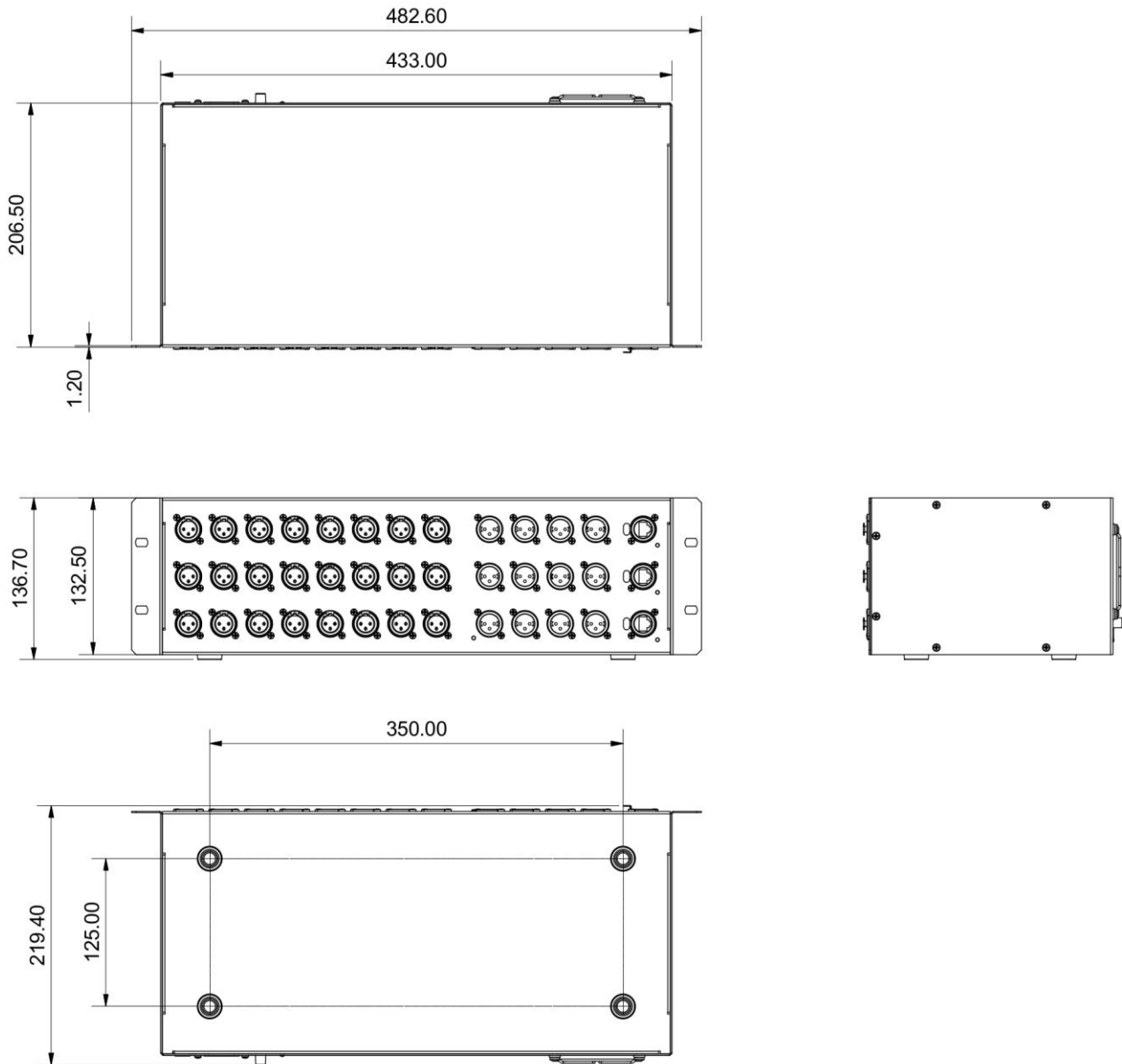
## Technical Datasheet

### Overview

- Compatible with SQ, Qu, Avantis, AHM-64, GLD
- 24 XLR Mic Preamps and 12 XLR Line Outs
- dSNAKE and dSNAKE Expander Connection with locking Ethercon port
- Allen&Heath ME and Aviom Pro 16 compatible Monitor Connection with locking Ethercon port



## Dimensions



## A&E Specifications

The unit shall be a portable remote audio rack for a digital mixing system. The remote audio rack shall provide 24 XLR inputs and 12 XLR outputs and shall be connected to add a further inputs and outputs. The XLR sockets shall be the same or higher quality and specification as those located on the digital mixing system, and shall appear in the digital mixing system soft patch for assignment to channels.

Audio connection shall be over Cat5 cable using Allen & Heath's dSNAKE Ethernet protocol, allowing the remote audio rack to be positioned up to 100m from the mixer or expanded audio rack. The Ethernet protocol shall provide control to the remote preamp, and all mic preamps are scene recallable by the digital mixing system. Unit firmware shall automatically be updated when connected to the digital mixing system. The local Ethernet port shall be an RJ45 socket with EtherCon locking ring.

It shall also be possible to connect a further remote audio rack to the main AudioRack unit to add a further 8 XLR inputs and 4 XLR outputs from that location. This connection

shall be via an 'Expander' connection and shall also be an RJ45 socket with EtherCon locking ring.

A port shall be provided to supply 40 channels of audio signals to Allen&Heath ME personal monitoring solution hardware. This connection shall be named 'Monitor' and shall be an RJ45 socket with EtherCon locking ring. It shall also be compatible with the Aviom® Pro16 monitoring system.

The unit shall be a robust steel, 19" rack-mountable chassis 3U in height. It shall have a built in power supply accepting AC mains voltages of 100-240V, 50/60 Hz, 70W max via an earthed 3-pin IEC male connector mounted on the rear chassis. A switch shall be provided near the mains inlet to isolate the mixer from the incoming mains supply.

Recommended operating temperature for the remote audio shall be 5 to 35 degrees Celsius.

The unit shall be the Allen&Heath AR2412 Main AudioRack.

## System Specification

### Inputs

<b>XLR Mic/Line Inputs</b>	Balanced
Mic/Line Preamp	Fully recallable
Input Sensitivity	-60 to +15dBu
Analogue Gain	+5 to +60dB, 1dB steps
Pad	-20dB
Maximum Input Level	+32dBu
Input Impedance	>4k $\Omega$ (Pad out), >10k $\Omega$ (Pad in)

<b>Mic/Line Channel noise</b>	20-20kHz, Direct Out @ unbalanced out
Mic EIN	-127dB with 150 $\Omega$ source
Unity gain (Pad in)	-90dBu
Low gain (5dB, Pad out)	-93dBu
Mid gain (30dB, Pad out)	-89dBu

<b>Mic/Line Channel THD+N</b>	20-20kHz, Direct Out @ unbalanced out
Unity gain (Pad in)	0.005% -86dBu @ 1kHz, 0dBu output
Low gain (5dB, Pad out)	0.003% -89dBu @ 1kHz, 0dBu output
Mid gain (30dB, Pad out)	0.004% -88dBu @ 1kHz, 0dBu output

### Outputs

<b>XLR Outputs</b>	Balanced, Relay protected
Output Impedance	<75 $\Omega$
Nominal Output	+4dBu = 0dB meter reading
Maximum Output Level	+22dBu
Residual Output Noise	-91dBu (muted, 20-20kHz)

<b>Operating Temperature</b>	0 deg C to 35 deg C (32 deg F to 95 deg F)
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<b>Mains Power</b>	100-240V, 50/60 Hz, 70W max
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