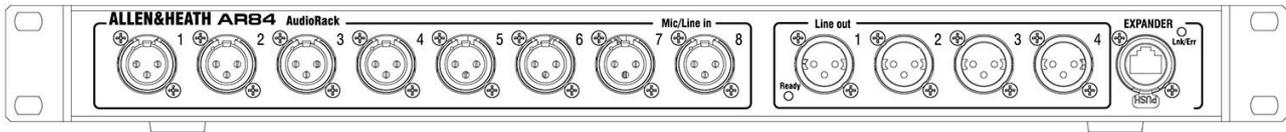


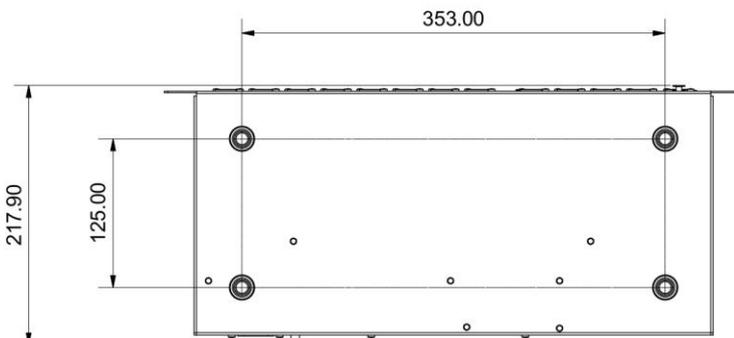
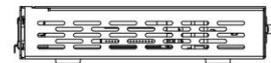
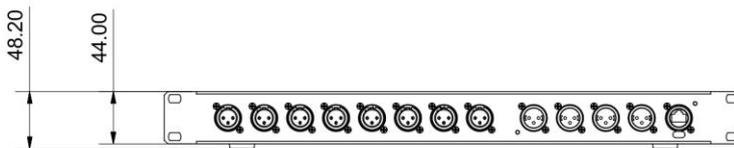
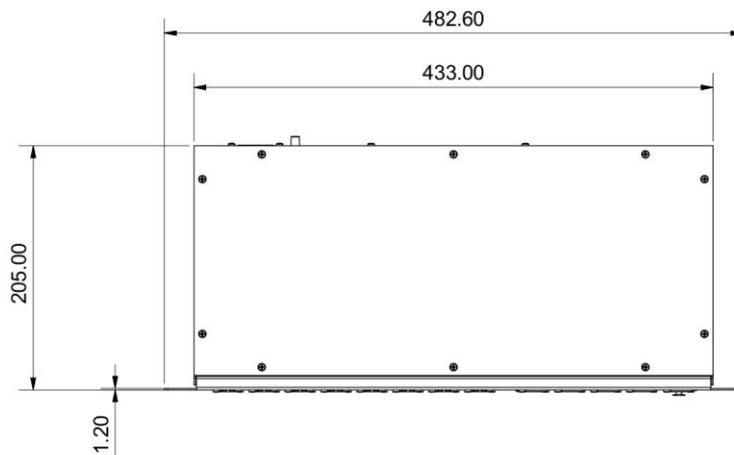
### Technical Datasheet

#### Overview

- Compatible with SQ, Qu, Avantis, AHM-64, GLD
- 8 Mic Preamps on XLR
- 4 XLR Line Outs
- dSNAKE 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 8 XLR inputs and 4 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 connected the remote audio rack to a 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.

The remote audio rack shall be compatible with Allen&Heath digital mixers.

The unit shall be a robust steel, 19" rack-mountable chassis 1U in height. It shall have a built in power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 20W 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 rack shall be 5 to 35 degrees Celsius.

The unit shall be the Allen&Heath AR84 Expander 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, 20W max
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