

# ALLEN & HEATH

## AR84

### Expander AudioRack

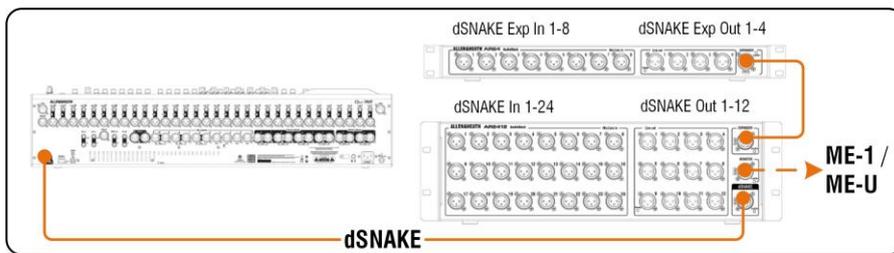
The **AR84** is an expander audio interface rack for the Allen & Heath GLD, SQ and Qu digital mixing systems. It provides 8 remote controlled mic/line preamps and 4 XLR line outputs. The AR84 can connect directly to the mixer, or from the expander port of another AR or AB Remote Audio Unit, to expand the number of system inputs and outputs.

The AR84 is simply an audio interface. It cannot be used by itself. It must connect to the GLD, SQ or Qu mixer which is where the audio is processed.

- The AR84 is not compatible with Allen & Heath iLive Series components or ACE connection.

Refer to the GLD User Guide AP8561, GLD Chrome Edition User Guide AP9989, SQ SLink Connections document and Qu User Guide AP9372 for information on connecting and using the AR84 with your system. Refer to the Allen & Heath web site for more information and suitable Cat5 cables.

The diagrams below show some example applications.



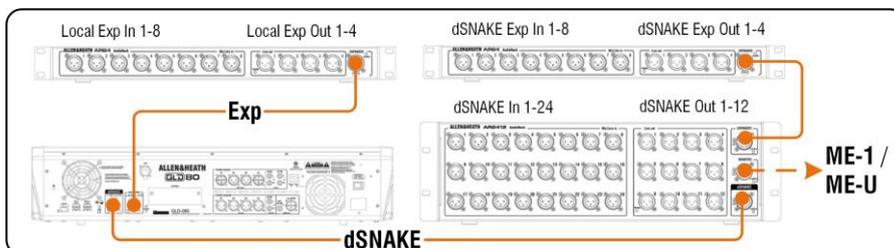
#### Qu-32 + AR2412 + AR84

Access all 32 mic inputs on stage



#### Qu-16 + AR84

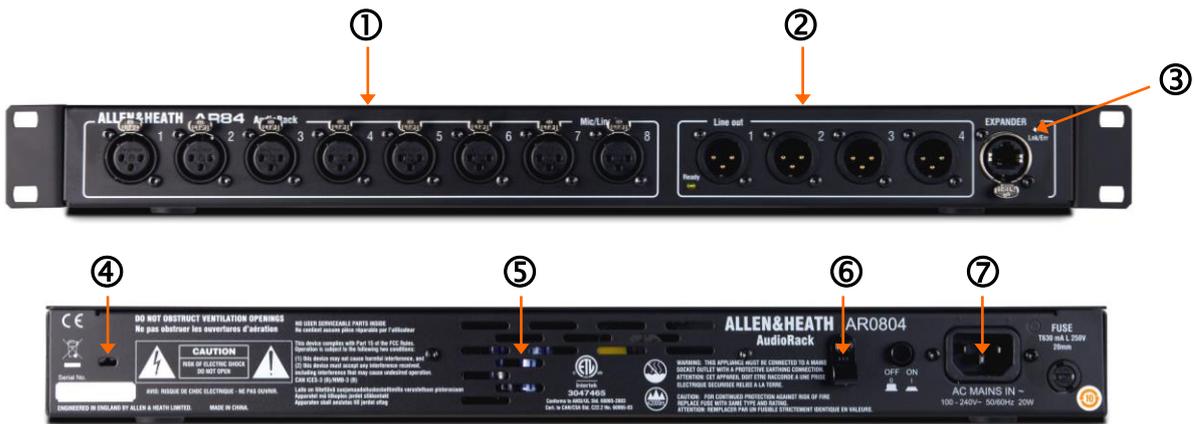
8 remote inputs, 4 outputs, ideal for a stereo PA and 2 monitor feeds



#### GLD-80 + AR2412 + 2x AR84

Fully expanded GLD system, 48 in, 30 out

# AR84 Panel Layout



**① Input sockets** 8 balanced XLR inputs for microphone and line level sources. The preamps are built into the AR84 rack and their Gain, Pad and 48V phantom power is remote controlled from the mixer via the digital link. The outputs of the analogue preamps are converted to digital format and transported via a Cat5 cable to be processed and mixed at the mixer.

The sockets are numbered 1-8, and can be freely patched in the GLD or SQ **I/O** screen or in the Qu **Setup / I/O Patch / dSNAKE In** screen.

**② Output sockets** 4 balanced XLR outputs operating at nominal +4dBu line level. Any signal can be patched to any socket using the GLD or SQ **I/O** screen or Qu **Setup / I/O Patch / dSNAKE Out** menu. The mixer defaults to a logical mapping of these sockets to get you started. The sockets are numbered 1-4.

**③ EXPANDER port** Cat5 cable link to connect the AR84 expander to the mixer or the EXPANDER port on the AR2412 or AB168 AudioRack.

- Note that the EXPANDER link is not compatible with the iLive ACE connection.

**④ Kensington security slot** To attach a 'Kensington lock' standard anti-theft cable and lock if required.

**⑤ Fan** A low noise fan inside the rack ensures air movement to keep the circuits and internal components within operating temperature range.

- Ensure good ventilation at the back of the rack.

**⑥ Mains cable clip** You can secure the cable in place using the plastic P-clip. Use a T20 Torx screwdriver to refit the screw.

**⑦ Mains power input** IEC connector, fuse and power ON/OFF push switch for the built-in universal voltage power supply unit. This accepts worldwide voltages from 100 to 240V AC 50/60Hz. Check that you have received the correct mains lead for your territory.

Allen & Heath can provide the following CAT5e cables:

**AH9650** 100m drum of Etherflex cable with Neutrik EtherCon locking connectors.

**AH9981** 50m drum of Etherflex cable with Neutrik EtherCon locking connectors.

**AH9651** 20m Etherflex cable with Neutrik EtherCon locking connectors.

**AH9997** 2m cable with Neutrik EtherCon locking connectors.

## Note

- Read the Safety Instructions Sheet and information printed on the panel before operating.
- A limited one year manufacturer's warranty applies to this product, the conditions of which can be found at: [www.allen-heath.com/legal](http://www.allen-heath.com/legal).
- By using this Allen & Heath product and the software within it you agree to be bound by the terms of the relevant End User Licence Agreement (EULA), a copy of which can be found at: [www.allen-heath.com/legal](http://www.allen-heath.com/legal).
- Register your AR84 with Allen & Heath online at: <http://www.allen-heath.com/uk/support/Pages/ProductRegistration.aspx>