



ALLEN HEATH AH-DX012 Remote Output Expander with Analog and AES Connections User Guide

[Home](#) » [ALLEN HEATH](#) » ALLEN HEATH AH-DX012 Remote Output Expander with Analog and AES Connections User Guide 

Contents

- [1 ALLEN HEATH AH-DX012 Remote Output Expander with Analog and AES Connections](#)
- [2 Getting Started](#)
- [3 Front panel](#)
- [4 Rear panel](#)
- [5 Rack ears](#)
- [6 Connection](#)
- [7 Cables](#)
- [8 Specification](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)



ALLEN HEATH AH-DX012 Remote Output Expander with Analog and AES Connections

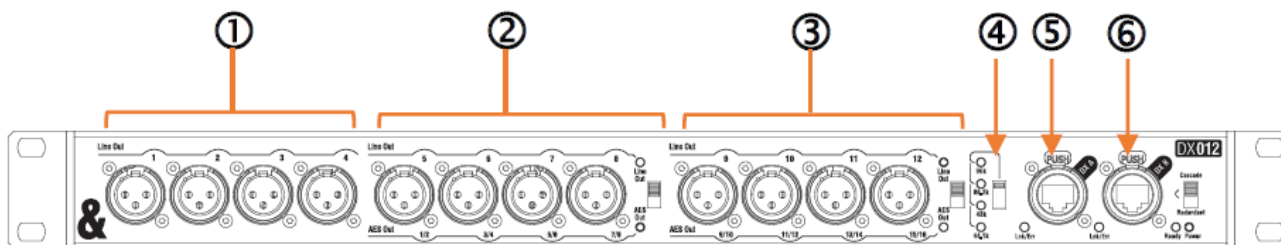


Getting Started

The DX012 is a 19" rack-mountable output expander for Allen & Heath digital mixing systems. It provides 12 XLR outputs, configurable as 12 analogue, 8 analogue + 4 stereo AES, or 4 analogue + 8 stereo AES outputs. It connects to the mixer over a single Cat5e cable.

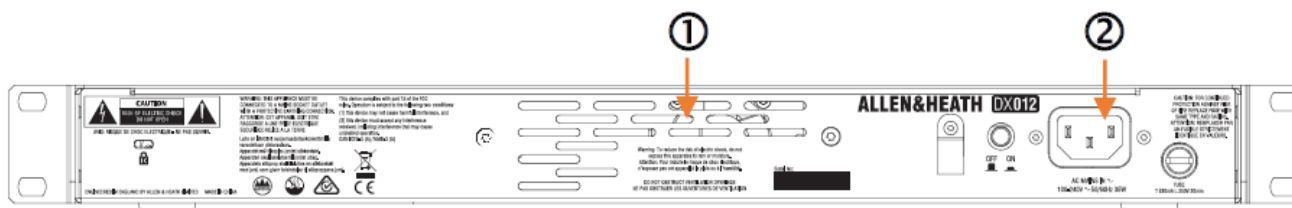
A second DX012, DX168 or DX164-W can be connected when in Cascade mode. Alternatively, a redundant connection can be made to compatible hardware.

Front panel



1. **Output sockets 1-4** Balanced analogue XLR outputs operating at nominal +4dBu level.
2. **Output sockets 5-8** Balanced analogue XLR outputs operating at nominal +4dBu level, configurable to stereo AES outputs 1-8. Use the recessed switch to choose analogue or AES digital operation.
3. **Output sockets 9-12** Balanced analogue XLR outputs operating at nominal +4dBu level, configurable to stereo AES outputs 9-16. Use the recessed switch to choose analogue or AES digital operation.
4. Sample Rate Global selection for sample rate of the AES outputs – 44.1kHz, 48kHz, 88.2kHz or 96kHz.
5. DX A EtherCon port for connection to the mixing system.
6. DX B EtherCon port for daisy chaining of a second unit or cable redundancy. Switch to Redundant for 2 cable connection to compatible hardware e.g. dLive S Class or DX Link card. Switch to Cascade for connection to a second DX012, DX168 or DX164-W unit.

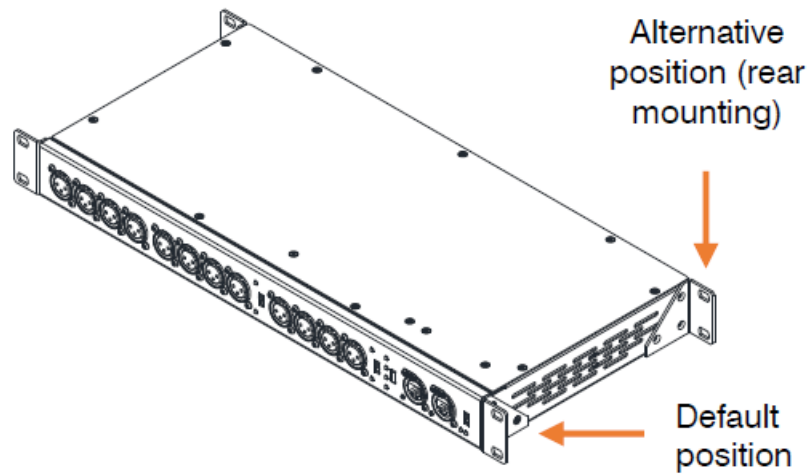
Rear panel



1. **Vents** Ensure good ventilation at the sides and back of the unit. Avoid obstruction of vents while operating. Avoid dirt or liquid ingress.
2. **Mains power input Switch**, IEC connector and fuse for the built-in universal voltage PSU. This accepts voltages from 100 to 240V AC 50/60Hz. Secure the cable to the plastic P-clip using a T20 screwdriver.

Rack ears

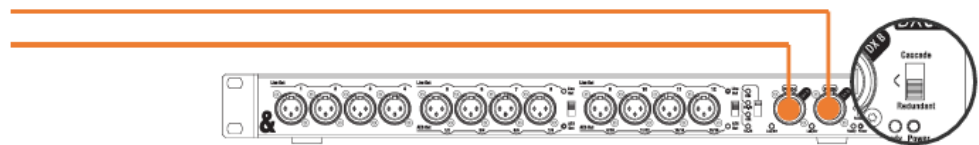
The rack ears can be reversed so the unit is mounted with the XLR connectors facing the rear of the rack. Using a Torx T8 driver, remove the 3x M3 screws holding the rack ears in place on each side, reposition the rack ears as shown below, and secure them again using the same screws.



Only use the M3x5mm countersunk screws provided with the unit.

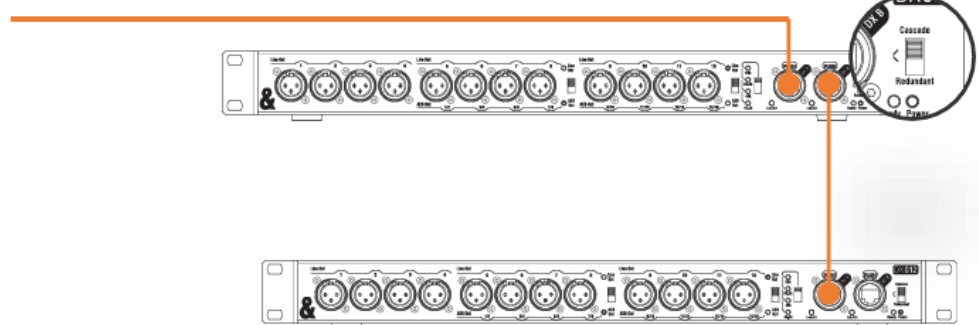
Connection

dLive S Class
Surface / MixRack,
DX Hub (x2), or DX
Link card only



Redundant mode – to compatible hardware only

dLive Surface /
MixRack, DX Hub,
DX Link card, SLink
port, or GX4816



Cascade mode – add second DX012, DX168 or DX164-W

DX012 requires dLive firmware V1.8 or higher / SQ firmware V1.4 or higher.

Cables

Cat5e or higher STP cable is required for connections, with a maximum cable length of 100m per connection. Allen & Heath can provide a number of Cat6 cables suitable for use with the DX012:

- AH9997 2m CAT5e cable with Neutrik EtherCon locking connectors
- AH10887 100m drum of CAT6 cable with Neutrik EtherCon locking connectors
- AH10886 80m drum of CAT6 cable with Neutrik EtherCon locking connectors

- AH10885 50m drum of CAT6 cable with Neutrik EtherCon locking connectors
- AH10884 20m drum of CAT6 cable with Neutrik EtherCon locking connectors

Contact your local A&H dealer for more information

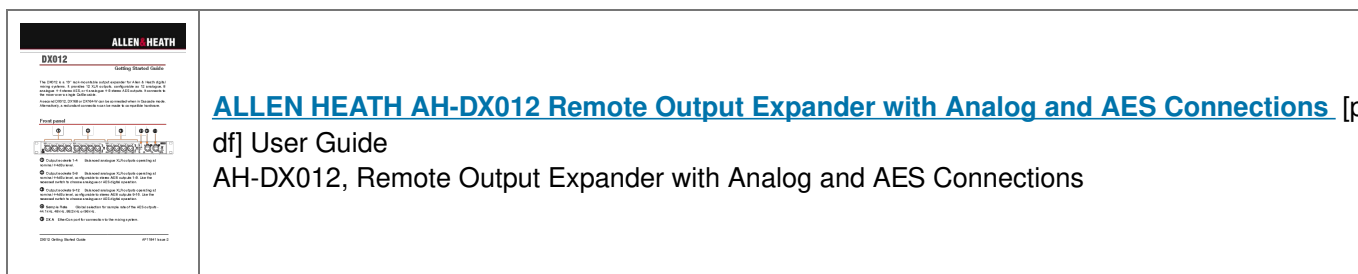
Specification

- Digital Outputs
AES3 2 Ch XLR, 2.5V balanced, terminated 110Ω
- Sample Rate
44.1kHz, 48kHz, 88.2kHz, 96kHz
- Analogue XLR Outputs
Balanced, Relay protected
- Output Impedance
<60Ω
- Nominal Output
+4dBu = 0dB meter reading
- Maximum Output Level
+22dBu
- Residual Output Noise
-95dBu (22Hz-22kHz)
- THD+N
-98dB (0dBu, 1kHz)
- Operating Temperature Range 0°C to 40°C (32°F to 104°F)
- **Power**
 - Mains Voltage Operating Range
100-240V AC, 50/60Hz
 - Mains Power Consumption
35W max
- Dimensions and Weight
Width x Depth x Height x Weight
 - **DX012**
482.6 x 48.2 x 214.7 mm x 2.95kg (19" x 1.9" x 8.5" x 6.5lbs)
 - **DX012 (boxed)**
600 x 335 x 150 mm x 4.1kg (23.6" x 13.2" x 5.9" x 9lbs)

Read the Safety Instructions Sheet included with the product and the 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

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 Register your product with Allen & Heath online at: <http://www.allen-heath.com/support/register-product/> Check the Allen & Heath website for the latest documentation and software updates.

Documents / Resources



ALLEN HEATH AH-DX012 Remote Output Expander with Analog and AES Connections [p
df] User Guide
AH-DX012, Remote Output Expander with Analog and AES Connections