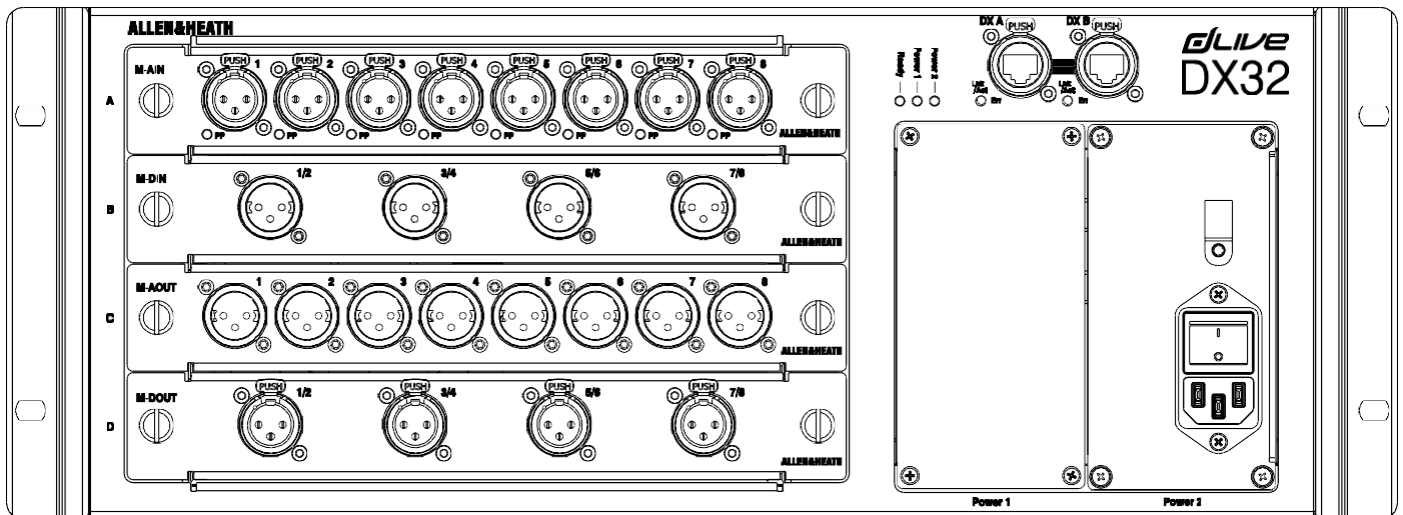


## DX32 Technical Datasheet

### Overview

- dLive modular Expander
- 4x slots, up to 32ch
- Any combination of analogue / digital I/O modules
- New preamp design for extra transparency
- Unique Active PAD circuit for consistent performance with any source
- Redundant Cat5 connection to dLive MixRack or Surface
- Dual redundant, hot swappable power supply
- Can be rack-mounted or used on stage floor



### A&E Specifications

The expander shall be rack-mountable and shall include plastic feet for shelf or floor operation. It shall provide 4 slots to fit any combination of analogue or digital 8-channel I/O modules.

A pair of Ethercon ports shall be provided for redundant connection to the control surface or mix engine over Fast Ethernet. This connection shall carry up to 32x32 channels of uncompressed audio at 96kHz and control data. It shall also provide automatic firmware update to the expander at power up of the system when a firmware mismatch is detected.

Available I/O modules shall include:

- 8 recallable preamps with XLR connectors for balanced or unbalanced microphone and line level signals. Gain, Pad and 48V shall be digitally controlled within the preamp. A phantom power indicator shall be provided.

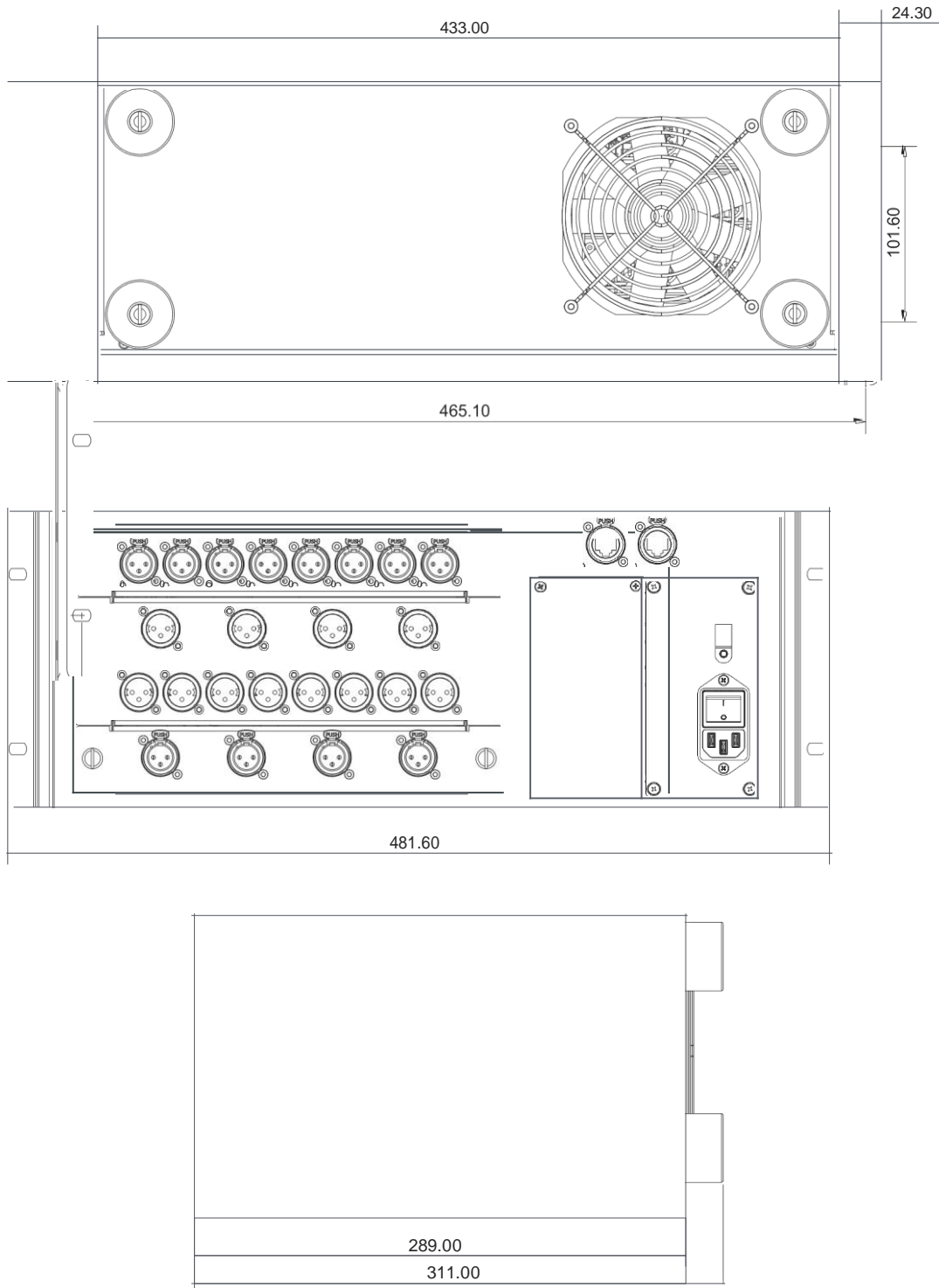
8 line level, balanced XLR outputs. The outputs shall be relay protected to prevent power on or off thumps.

- 4x stereo AES3 inputs on XLR with SRC (32kHz – 192kHz sampling rate). It shall be possible to bypass Sample Rate Conversion for each socket.
- 4x stereo AES3 outputs on XLR (44.1kHz, 48kHz or 96kHz switchable).

The unit shall have a modular power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 300W max via an earthed 3-pin IEC male connector. A rocker switch shall be provided near the mains inlet to isolate the mixer from the incoming mains supply. The unit shall also provide the option for a second, hot-swappable, redundant power supply. This shall be of the same type and interchangeable with the power supply fitted as standard.

The expander shall be the Allen&Heath dLive DX32.

## Dimensions



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## Technical Specifications

### Inputs

|                          |  |
|--------------------------|--|
| Mic/Line XLR Inputs      | Balanced XLR, +48V phantom power   |
| Mic/Line Preamp          | Fully recallable   |
| Input Sensitivity        | -60 to +15dBu  |
| Analogue Gain            | +5 to +60dB, 1dB steps   |
| Pad                      | -20dB Active PAD   |
| Maximum Input Level      | +30dBu (PAD in)  |
| Input Impedance          | >4k $\Omega$ (Pad out), >10k $\Omega$ (Pad in)                           |
| Mic EIN                  | -127dB with 150 $\Omega$ source  |
| Phantom Power indication | Per socket, internal or external phantom power sensing, triggered at 24V |

|                |   |
|----------------|---|
| Digital Inputs | AES3 2Ch XLR, 2.5Vpp balanced terminated 110 $\Omega$<br>SRC on each pair, range 32k - 192kHz, with bypass option |
|----------------|---|

### Outputs

|                       |  |
|-----------------------|--|
| Analogue XLR Outputs  | Balanced, Relay protected  |
| Output Impedance      | <75 $\Omega$   |
| Nominal Output        | +4dBu = 0dB meter reading  |
| Maximum Output Level  | +22dBu   |
| Residual Output Noise | -92dBu (muted, 20-20kHz)<br>-90dBu (muted, 20-40kHz)   |
| Digital Outputs       | AES3 2Ch XLR, 2.5Vpp balanced terminated 110 $\Omega$<br><br>96kHz sampling rate, switchable to 48kHz, 44.1kHz |

### System

|                             |  |
|-----------------------------|--|
| Sampling Rate               |  |
| ADC                         | 24-bit Delta-Sigma   |
| DAC                         | 24-bit Delta-Sigma   |
| Latency                     | + 8 samples, DX32 to Mixrack or DX32 to Surface (DX hop)   |
| System latency              | 0.7 ms (MixRack XLR in to XLRout, Input to Mix)<br>+ 5 samples, Surface to Mixrack (GigaACE hop) |
| Operating Temperature Range | 0 deg C to 35 deg C (32 deg F to 95 deg F)   |

### Power

|                               |  |
|-------------------------------|--|
| Mains Voltage Operating Range | 100-240V AC, 50/60Hz                                   |
| Mains Power Consumption       | 300W max (MPS16 V1 300W)*<br>250W max (MPS16 V2 250W)* |

ⓘ MPS16 power consumption is printed under AC inlet

### Temperature

|                             |                             |
|-----------------------------|-----------------------------|
| Operating Temperature Range |                             |
| Fitted with:                |                             |
| MPS16 V1 300w               | 0°C to 35°C (32°F to 95°F)  |
| MPS16 V2 250w               | 0°C to 40°C (32°F to 104°F) |

### Dimensions and Weights

|      |                                     |
|------|-------------------------------------|
|      | Width x Depth x Height x Weight     |
| DX32 | 433 x 290 x 177 mm x 10.5kg (23lbs) |

