

Using the very latest converter and component technology, PRIME modules are designed to deliver next-level audio quality for critical live, broadcast and studio applications. They offer improved SNR, THD+N, slew rate, frequency response at low frequencies, consistency across channels, and crosstalk.

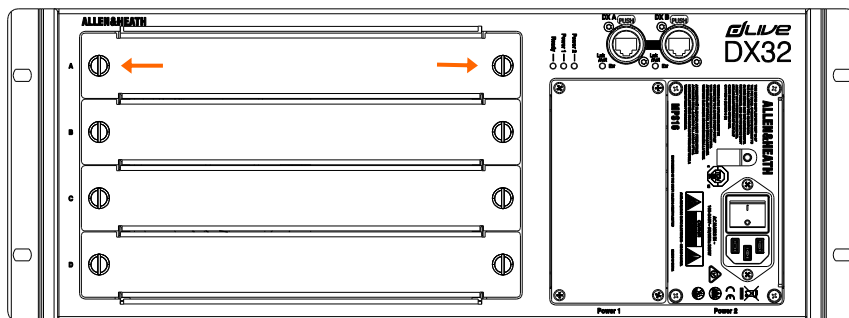
M-DX32-INPR can be fitted to the Allen & Heath DX32 Expander and used in conjunction with other I/O.

- ❗ PRIME modules require dLive firmware V1.71 / SQ firmware V1.4.0 or higher.

Fitting the module

The DX32 provides 4x slots for 8ch modules labelled A, B, C, D. Any combination of analogue or digital I/O modules can be fitted.

To fit a module, switch the Expander off, and remove the blank panel by loosening the 2 thumb screws; remove the film protection from the module's multipin connector, slide the module into the slot and press it firmly into the mating connector, then secure it by tightening the thumb screws.

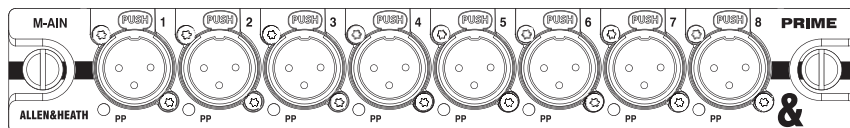


Use the dLive / SQ I/O screen to patch signals from or to the DX32 I/O.

- ❗ For more information please refer to the DX32 Getting Started Guide and dLive / SQ Firmware Reference Guides available for download at www.allen-heath.com.

Front panel

M-DX32-INPR provides 8x mic/line XLR inputs with Phantom Power indicators.

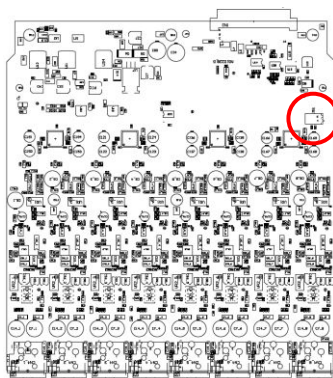


DIP switch settings

Two DIP switches allow customisation of the converters' digital decimation LPF settings to suit the application. Note that the settings interact with each other. The default factory setting is Normal Latency, Slow Roll-off.

SW1 <i>Controls the roll-off of the filter</i>	SW2 <i>Controls the latency of the filter</i>	Latency*
On (switch down) Sharp Roll-off	On (switch down) Normal Latency	458µs
On (switch down) Sharp Roll-off	Off (switch up) Low Latency	312µs
Off (switch up) Slow Roll-off	On (switch down) Normal Latency	333µs
Off (switch up) Slow Roll-off	Off (switch up) Low Latency	312µs

*Latency measured when routing Direct Out to a DX32 PRIME output, default switch settings.



The DIP switches can be found on the right side of the PCB board

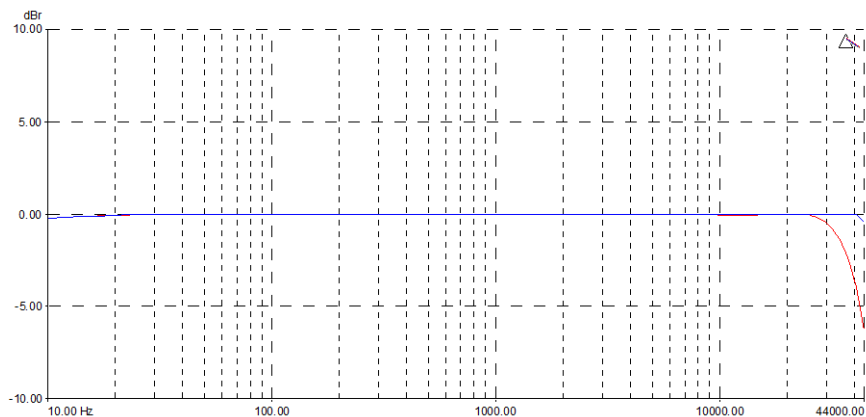
Technical specifications

ADC	96kHz, 32-bit Delta-Sigma
Mic/Line XLR Inputs	Balanced XLR, +48V phantom power
Mic/Line Preamp	Fully recallable
Input Sensitivity (dLive)	-60 to +15dBu
Input Sensitivity (SQ)	-60 to +20dBu
Analogue Gain (dLive)	+5 to +60dB, 1dB steps
Analogue Gain (SQ)	0 to +60dB, 1dB steps
Pad	-20dB Active PAD
Maximum Input Level	+38dBu (PAD in)
Input Impedance	>4k Ω (Pad out), >10k Ω (Pad in)
Mic EIN	-127.5dBu with 150 Ω source
Phantom Power indication	Per socket, internal or external phantom power sensing, triggered at 24V

Measured Prime in to AES out, 20-20kHz, minimum Gain, Pad out.

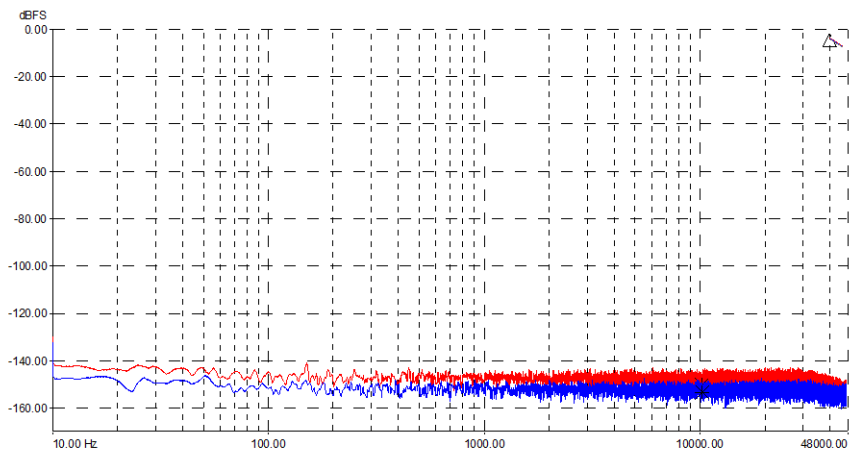
Full Signal Dynamic Range	114.8dB
Noise at 0dB gain	-96.8dBu
Frequency Response to AES output	
At 0dB gain	10Hz - 20kHz +0/-0.3dB
At 30dB gain	10Hz - 20kHz +0/-0.3dB
At 60dB gain	10Hz - 20kHz +0/-0.25dB
THD+N (analogue in to AES out)	0.0009% @ +10dBu out 0dB gain
	0.0009% @ +10dBu out 10dB gain
	0.001% @ +10dBu out 20dB gain
	0.0011% @ +10dBu out 30dB gain

Frequency Response and Residual Noise



PAD out, to AES out
Switch 1=ON (Sharp Roll-off)

PAD out, to AES out
Switch 1=OFF (Slow Roll-off)



PAD out, to AES out
30dB gain

PAD out, to AES out
5dB gain

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