



ULN-2 2d Expanded Compact and Portable – Remarkable Sound



ULN-2 – Ultra High Quality

Featuring the power, portability and sheer sound quality of Mobile I/O in a small, lightweight package, the ULN-2 breaks new ground in terms of performance. ULN stands for Ultra Low Noise and the Mic Pres in the ULN-2 live up to the name.

Providing massive gain [up to 72 dB] with an EIN of -129 dBu [wideband weighted], fantastic detail and an ultrafast slew rate, the ULN Mic pres are up to the most demanding recording situations you can throw at them.

The ULN-2 also features balanced analog inserts for each input. This lets you use the ULN-2 as a standalone analog Mic pre/direct box, or even patch in analog dynamics processing between the Pre and the integrated 24bit/96kHz A/D converters.

With the included stereo monitor level controls, the ULN-2 is the perfect solution for stereo monitoring and acquisition. Coupled with your native OSX software, the ULN-2 provides everything required to work with high quality audio today!

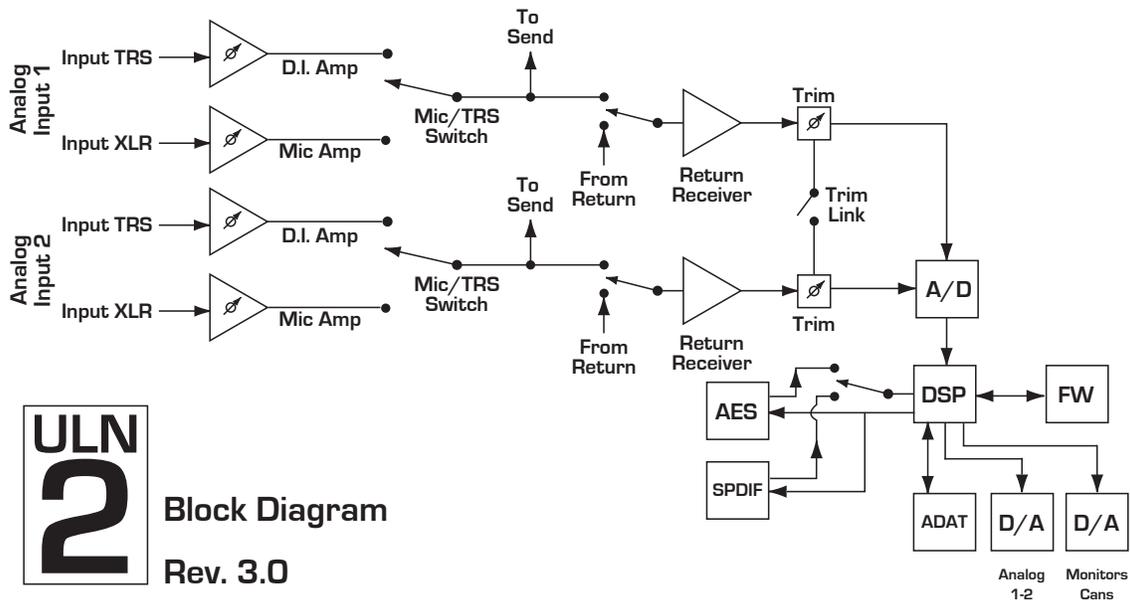
And of course it has the same FireWire connectivity, amazing A/D/A converters and powerful onboard DSP as its older sibling – the Mobile I/O 2882.

You can chain up to three interfaces per FireWire bus – use the ULN-2's extended gain and dynamic range for critical channels which need higher gain and live gain riding, the 2882 for channel count and recallability or the ULN-8 for the most uncompromising sound quality. Your interfaces work as well together as they do on their own, allowing you to build a flexible system to cover any situation.

The ULN-2 2d Expanded interface is built around our 2d DSP technology. This makes the ULN-2 much more than an interface; it gives you a multiple bus mixer for near zero latency monitoring and mixing with the ability to run plug-ins on the interface. For example, you can create a headphone mix for a vocalist that puts eq, compression and reverb in their cans without the penalty of round-trip latency through your DAW. The MIOConsole software controls every aspect of your routing and DSP, and you can get total recall of all parameters by using our ConsoleConnect plug-in your native DAW.

Key Features

- 2 Mic/Line/Instrument analog inputs on Neutrik Combo connectors
- Balanced TRS analog sends and returns for analog inputs
- 2 analog outputs on balanced TRS connectors
- 24bit/96k converters on all channels
- Headphone amp with front panel volume knob
- Balanced stereo master control room monitor output with front panel volume control
- AES-S/SPDIF Digital I/O with selectable SRC
- Optical Digital I/O switchable between ADAT and Toslink format
- Onboard 80-bit multibus mixer for near-zero latency mixing and routing
- 4-pin XLR power port for compatibility with most location battery systems
- 9 front panel preset system/routing memories for stand-alone operation
- FireWire Connectivity
- Compact, light and bus-powerable



Block Diagram
Rev. 3.0



ULN-2 2d Expanded Specifications



ULN-2 Technical Specifications

Stepped Gain Range	+6 dB – +72 dB [6 dB steps]
Gain Range with Trim	-14 dB – +70 dB
Input Impedence	3.3 k Ω
Harmonic Distortion @ 1kHz [+9dBu in @ 6 dB Gain]	0.0005%
Intermodulation Distortion 1k component [19kHz/20kHz @ +8 dBu]	-96 dBu
Equivalent Input Noise [E.I.N] 20 Hz – 20kHz Flat @ 72 dB Gain	
150 Ω Source	-130.5 dBu
50 Ω Source	-132.0 dBu
0 Ω Source	-134.0 dBu
Frequency Response	
18 Hz – > 20 kHz	\pm 0.1 dB
8 Hz – > 50 kHz	\pm 1.0 dB
3 Hz – > 100 kHz	\pm 3.0 dB
Crosstalk @ 1kHz	
trim link engaged	-107 dB
trim link disengaged	-132 dB

ULN-2 Technical Specifications

Maximums	
Max Gain	72 dB
Preamp Headroom	20 dB above Digital Clip
Phantom Power	+48v Regulated, high current, individually switchable, P48 test compliant, short circuit/hotswap protected
Physical Specs	
Controls	Stepped Gain [12 dB steps 6 – 72 dB] Continuous Attenuator on return Attenuation link Mic/Line Select switch Independant Monitor Volume Controls Independant Phantom Power Controls
Dimensions [W x D x H]	13.5" x 8.25" x 1.73" 34.3 cm x 21 cm x 4.4 cm
Weight	4 lbs. 1.8 kg
Power	
Rating	8 watts @ 9 – 30v DC
Connectors	4-pin XLR Broadcast Battery [pin 4 hot] Firewire

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