

# UNO

## Pre-configured DSP



Let the DSP save you time with Xilica's pre-configured range of Uno Series processors, devised to suit a broad range of fixed audio installations and equipped with optional Dante networking, AES/EBU and AEC.

- Pre-configured programming reduces required time and skill needed to successfully configure a Xilica Uno product. Large application library available online, and custom project designs provided free-of-charge
- Features a range of I/O combinations to maximise choice and reduce unnecessary spend, including 8x8, 8x16, 16x8, and 16x16 - all with individual terminal block connections to permit rapid installation
- Available factory-installed option cards include bi-directional Dante networking, AES/EBU digital audio via a DB25 connector, and eight channels of low-latency AEC
- Uno products can be controlled and programmed over Ethernet using the Xilica Designer software, which allows universal programming of Dante-enabled products from manufacturers including Bose, Powersoft, Yamaha and others
- Uno connects to a wide range of control interfaces, including: its own browser-based control panel; the XTouchApp iOS and Android app; wired XTouch50 and XTouch80 controls; Mini series wall controls; GPIO custom I/O; and third-party control systems such as Crestron and AMX

### Engineer's Specification

Model versions shall provide eight (8) or sixteen (16) balanced analog mic/line inputs with 48V switchable Phantom power, alongside eight (8) or sixteen (16) balanced line outputs (models U0808, U0816, U1608, and U1616). Processing is through 24-bit A/D & D/A converters and 40-bit floating point DSP, with 48kHz sample rate. The front panel shall include power and network LEDs and input/output LED level indicators. Audio connections shall be accessed via rear panel 3.50mm individual terminal block connectors. Network audio expansion shall be provided in Uno-N models by the Dante™ protocol with a capacity of 32 (16x16) channels. The connector shall be 1000 Base-T RJ45 utilizing CAT6 cable. Available DSP components used to create the pre-configured Uno project

designs shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, room combiners, delays, remote controls, meters, and onboard logic. Ethernet communication shall be utilized for software control and configuration. The processor shall include a 4x2 General Purpose Input and Output connection (GPIO) for sending or receiving GPIO signals. All program memory shall be non-volatile and provide program security should power fail. The processors shall be ETL marked and comply with UL/CSA/CE safety requirements, FCC emission requirements, and be compliant with the RoHS directive. The steel and aluminum chassis mounts into a standard 19" 1U EIA rack. Warranty shall be 2 years parts and labor. The DSP shall be the Uno Series.



Rear panel view of the Uno U1616-ND, with Dante and AES/EBU I/O section.

## Available Model Variants

	Base Model	With Dante	With AES/EBU	With AEC	With Dante & AES/EBU	With Dante & AEC
8x8 I/O	U0808	U0808-N	U0808-D		U0808-ND	
8x16 I/O	U0816	U0816-N				
16x8 I/O	U1608	U1608-N		U1608-AEC		U1608-AEC-N
16x16 I/O	U1616	U1616-N	U1616-D		U1616-ND	

## Technical Specifications

Input impedance	>10k Ohms
Output impedance	50 Ohms
Maximum level	+20dBu
Mic/Line	Mic (+40dB gain)/Line (0dB)
Type	Electronically balanced w/ 48V Phantom power
Frequency response	+/-0.15dB (20 to 20kHz)
Dynamic range	110dB typ (unweighted)
CMRR	>50dB @ 1kHz
Crosstalk	<-110dB @ 1kHz
Distortion	0.002% (1kHz @ +4dBu)

Processor	40-bit Floating point
Sampling rate	48kHz
Analog converters	High-performance 24-bit
Propagation delay	3ms (AEC: 11ms)
Connectors	Phoenix Plug-in 3.5mm (included), RJ45 Ethernet, IEC power socket, DB-25 (AES/EBU, for digital I/O models only)
Power	90-240 VAC (50-60Hz)
Dimensions	19"x1.75"x9" (483x44x229mm)
Rack mount	1RU, with vent between units
Weight	11lbs / 5kg
Warranty	2 years parts and labor

\*Specifications subject to change



## Customer Support

If you'd like to contact us regarding product support or technical designs, email [support@xilica.com](mailto:support@xilica.com) and we'll connect you with a solutions engineer. Alternatively, if you'd like to speak to someone, you can call the following numbers for immediate assistance:

International:	+1 905 770-0055
US Toll Free:	+1 877 767-0234
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