

# Rio R1616-N



Xilica offers extensive support for the networking technology in its range. For example, the Rio Series of Dante-enabled I/O interfaces can be used to provide additional flexibility not only for the Dante-enabled Neutrino-N and Uno-N processor models, but also as standalone interface devices with other Dante-enabled brands.

When the Rio Series is used in conjunction with Neutrino-N and Uno-N processors, the user has the advantage of being able to configure and manage all Dante devices from within the Xilica Designer software, removing the need to run separate Dante Controller software.

Rio Series features six interface models. The newest Rio models include the R22-P, R44-P, R22-WP-X, and R22-WP-M models, which join the original Rio R1616-N and R1616-NX models. All models provide bi-directional Dante network audio transport - analogue audio input, conversion, and transport over network cable and Dante network audio to analog audio breakout.

The R1616-N is a full size, 1RU, 19" rack-mount Dante interface providing 16x16 I/O channels of Dante network audio and 16x16 I/O channels of analog audio on Phoenix connectors.

## 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
Connectors	Phoenix connectors, RJ45 Ethernet, RJ45 Dante®, IEC power socket
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
Europe:	+31 29940-1100
China & Hong Kong SAR:	+852 2604-9382



## Rio R1616-NX



Xilica offers extensive support for the networking technology in its range. For example, the Rio Series of Dante-enabled I/O interfaces can be used to provide additional flexibility not only for the Dante-enabled Neutrino-N and Uno-N processor models, but also as standalone interface devices with other Dante-enabled brands.

When the Rio Series is used in conjunction with Neutrino-N and Uno-N processors, the user has the advantage of being able to configure and manage all Dante devices from within the Xilica Designer software, removing the need to run separate Dante Controller software.

Rio Series features six interface models. The newest Rio models include the R22-P, R44-P, R22-WP-X, and R22-WP-M models, which join the original Rio R1616-N and R1616-NX models. All models provide bi-directional Dante network audio transport - analogue audio input, conversion, and transport over network cable and Dante network audio to analog audio breakout.

The R1616-NX is a full size, 2RU, 19" rack-mount Dante interface providing 16x16 I/O channels of Dante network audio and 16x16 I/O channels of analog audio on XLR I/O connections.

### 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
Connectors	XLR, RJ45 Ethernet, RJ45 Dante®, IEC power socket
Power	90-240 VAC (50-60Hz)
Dimensions	19"x3.5"x12"(483x89x305mm)
Rack mount	2RU, with vent between units
Weight	15lbs / 6.8kg
Warranty	2 years parts and labor

\*Specifications subject to change



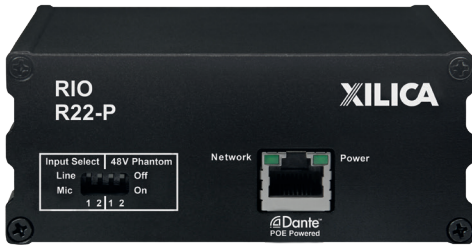
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## R22-P



The R22-P is a Dante-enabled interface device within the Xilica Rio family of audio I/O expanders. Rio products, although perfectly-paired with Xilica's Neutrino-N and Uno-N devices, may also be used with any Dante-compatible product from other manufacturers. The R22-P provides bi-directional Dante audio transport in a small-format, remote package.

The R22-P is a 1/4 rack-chassis size with Mic/Line Input (switchable) and individual 48V Phantom Power. The R22-P product differs from the R44-P, in that it features a smaller I/O count - 2-in, 2-out.

## R44-P



The R44-P is a Dante-enabled interface device within the Xilica Rio family of audio I/O expanders. Rio products, although perfectly-paired with Xilica's Neutrino-N and Uno-N devices, may also be used with any Dante-compatible product from other manufacturers. The R44-P provides bi-directional Dante audio transport in a small-format, remote package.

The R44-P is a 1/4 rack-chassis size with Mic/Line Input (switchable) and individual 48V Phantom Power. The R44-P product differs from the R22-P, in that it features a larger I/O count - 4-in, 4-out.

## 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
Connectors	Phoenix connectors, RJ45 Ethernet, External PSU (included)
Power	External power (included) or PoE
Dimensions	4 1/4"x1 3/4" x 4 3/4" (108x45x152mm)
Rack mount	Surface mount brackets (included)
Weight	0.5lbs / 227grams
Warranty	2 years parts and labor

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## R22-WP-X



The R22-WP-X is a wall-mount Dante interface panel within the Xilica Rio family of networked audio products. The R22-WP-X provides a cost-effective way to add two (2) I/O channels of bi-directional Dante audio to an existing Dante-based network.

The R22-WP-X provides XLR analog I/O connections only, alongside Mic/Line input, switchable 48V Phantom power and separate status LED. The product features a two-piece design with Decora style faceplate, which snaps onto the main metal body. Variants are available in all black, all white, black/white and white/black.

## R22-WP-M



The R22-WP-M is a wall-mount Dante interface panel within the Xilica Rio family of networked audio products. The R22-WP-M provides a cost-effective way to add two (2) I/O channels of bi-directional Dante audio to an existing Dante-based network.

The R22-WP-M provides a mix of XLR, dual RCA (L+R), and stereo 3.5mm (L+R) analog connections, alongside switchable 48V Phantom power. The product features a two-piece design with Decora-style faceplate, which snaps onto the main metal body. Variants are available in all black, all white, black/white and white/black.

### Technical Specification

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
Connectors	<b>R22-WP-X:</b> XLR, RJ45 Ethernet, External PSU (included) <b>R22-WP-M:</b> XLR, RCA, stereo 3.5mm, RJ45 Ethernet, External PSU (included)
Power	External power (included) or PoE
Dimensions	4.6"x4.6"x1.2" (117x117x30mm)
Rack mount	Surface mount backbox (included)
Weight	1lbs / 0.5kg
Warranty	2 years parts and labor

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