

Overview

The RMio64-D Dante/MADI conversion I/O rack supports a wide range of broadcast and live sound applications with extraordinary flexibility.



Rear Panel

Features

- 1U size
- Transfer up to 64 digital inputs and 64 digital outputs between a Dante network and a MADI-compatible device
- Built-in sample rate converters on inputs and outputs
- Supports Dante redundancy
- Redundant MADI connections can be made via optical and coaxial cables
- MADI signals received via an optical (coaxial) input that can be retransmitted via a coaxial (optical) output
- Mounting, Dante patching, and SRC settings can all be remotely controlled from a CL or QL series console
- The Yamaha Nuage system offers Direct Monitoring functionality for recording, precision VST System Link synchronization
- Supports remote controllability via Nuage Workgroup Manager system management software

Specifications

General Specifications

Sampling Frequency	Internal	44.1kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm
		48kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm
		88.2kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm
		96kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm
		176.4kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm
		192kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm
	External	44.1kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm
		48kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm
		88.2kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm
		96kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm
		176.4kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm
		192kHz	M+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm
MADI Channels & Formats	fs=44.1kHz/48kHz:	MADI Single fs 44.1/48k frame, 56/64 channels	
	fs=88.2kHz/96kHz:	MADI Double fs 44.1/48k frame, 28/32 channels	
	fs=176.4kHz/192kHz:	MADI Double fs 88.2/96k frame, 28/32 channels MADI Quad fs 44.1/48k frame, 14/16 channels	
SRC	SRC Lock Range:	38.59kHz – 216kHz	
	Sample Rate Ratio Limit:	6:1	
Dimensions (WxHxD)	480mm x 44mm x 374 mm (18.9" x 1.7" x 14.72")		
Net Weight	4.7 kg (10.4lbs)		
Power Requirements (wattage)	25W		
Power Requirements (voltage and hertz)	US/Canada:	120V 60Hz	
	Japan:	100V 50/60Hz	
	China:	110-240V 50/60Hz	
	Korea:	220V 60Hz	
	Other:	110-240V 50/60Hz	
Temperature Range	Operating temperature range: 0 - 40°C		
	Storage temperature range: -20 - 60°C		
Included Accessories	Owner's Manual, AC power cord		

Digital I/O Characteristics

Terminals	Format	Data length	Level	Connector
Primary/Secondary	Dante	24bit	1000Base-T	EtherCON x 2
MADI IN 1 – 64	AES10-2008 (MADI)	24-bit	ECL	BNC Connector
			-31 – -14dBm	SC Connector
MADI OUT 1 – 64			ECL	BNC Connector
			-20 – -14dBm	SC Connector

Control I/O Characteristics

Terminal		Level	Connector
WORD CLOCK	IN	TTL/75Ω terminated	BNC Connector
	IN for SRC	TTL/75Ω terminated	BNC Connector
	OUT	TTL/75Ω	BNC Connector
System Link Out		1.0±0.2Vp-p/75Ω*	BNC Connector

* AES-3id

Architectural and Engineering Specifications

The Yamaha RMio64-D shall be a 1U-size Dante/MADI format converting I/O rack that can handle up to 64 inputs and 64 outputs for broadcast, live sound, and other applications. The MADI inputs and outputs shall include built-in sample rate conversion so that MADI and Dante signals can be handled without having to change the clock settings for each. It shall support MADI split operation with dual MADI connections, allowing optical MADI input to be converted to Dante while simultaneously providing direct coaxial MADI output to other MADI devices. It shall support Dante patching from CL and QL series digital mixing consoles, as well as detailed sample rate converter setup and other remote control operations from the “R Remote” software application running on a computer. I/O facilities shall include Word Clock I/O, Word Clock In for SRC, and System Link Out. Dimensions shall be 480 (W) x 44 (H) x 374 (D) mm. Weight shall be 4.7 kg.

*All information subject to change without notice.

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