

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	44.1kHz 48kHz 88.2kHz 96kHz 176.4kHz 192kHz		+4.1667%/+0.1%/-0.1%/-4.0% ±50ppm +4.1667%/+0.1%/-0.1%/-4.0% ±50ppm +4.1667%/+0.1%/-0.1%/-4.0% ±50ppm +4.1667%/+0.1%/-0.1%/-4.0% ±50ppm +4.1667%/+0.1%/-0.1%/-4.0% ±50ppm		
	External	44.1kHz 48kHz 88.2kHz 96kHz 176.4kHz 192kHz	+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm +4.1667%/+0.1%/-0.1%/-4.0% ±200ppm +4.1667%/+0.1%/-0.1%/-4.0% ±200ppm +4.1667%/+0.1%/-0.1%/-4.0% ±200ppm M+4.1667%/+0.1%/-0.1%/-4.0% ±200ppm		
MADI Channels & Formats	fs=44.1kHz/48kHz: fs=88.2kHz/96kHz: fs=176.4kHz/192kHz:		MADI Single fs 44.1/48k frame, 56/64 channels MADI Double fs 44.1/48k frame, 28/32 channels 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

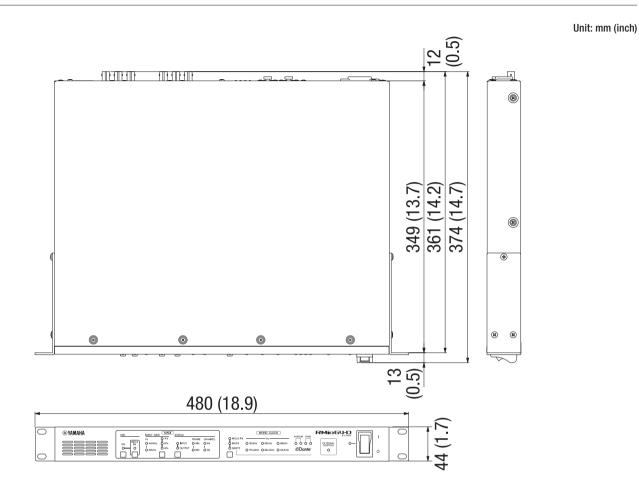
Control I/O Characteristics

Terminal		Level	Connector
	IN TTL/75Ω terminated		BNC Connector
WORD CLOCK	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



Dimensions



Software

• R Remote



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.

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