Overview

The RSio64-D is an audio interface that can convert between Dante and Mini-YGDAI formats for up to 64 inputs and 64 outputs.

Rear Panel

Features

- 2U size
- Convert up to 64 inputs and 64 outputs between Dante and Mini-YGDAI formats
- Accepts a wide range of Mini-YGDAI input/output and processing cards
- Seven general routing presets, including routing between Mini-YGDAI cards
- Supports matrix patching from R Remote V3 or a CL/QL series console
- Sample rate converters for all four Mini-YGDAI slots
- EXT DC INPUT for redundant power supplies
- Supports Dante redundancy (primary/secondary)

Specifications

General Specifications

<table>
<tr><td rowspan="4">Sampling Frequency External Clock</td><td rowspan="4">Frequency Range</td><td>44.1 kHz</td><td>+4.1667 %/+0.1 %/-0.1 %/-4.0 %</td><td>±200 ppm</td></tr>
<tr><td>48 kHz</td><td>+4.1667 %/+0.1 %/-0.1 %/-4.0 %</td><td>±200 ppm</td></tr>
<tr><td>88.2 kHz</td><td>+4.1667 %/+0.1 %/-0.1 %/-4.0 %</td><td>±200 ppm</td></tr>
<tr><td>96 kHz</td><td>+4.1667 %/+0.1 %/-0.1 %/-4.0 %</td><td>±200 ppm</td></tr>
<tr><td rowspan="4">Signal Delay</td><td colspan="3">SLOT IN (MY8-AE96) to SLOT OUT (MY8-AE96) (@ fs=96 kHz, SRC off, Internal routing)</td><td>Less than 0.2 ms</td></tr>
<tr><td colspan="3">SLOT IN (MY8-AE96) to Rio3224-D AES OUT (@ fs=48 kHz, through Dante, SRC off) (Dante Receive Latency set to 0.25 ms)</td><td>Less than 0.8 ms</td></tr>
<tr><td colspan="3">SLOT IN (MY8-AE96) to Rio3224-D AES OUT (@ fs=96 kHz, through Dante, SRC off) (Dante Receive Latency set to 0.25 ms)</td><td>Less than 0.5 ms</td></tr>
<tr><td colspan="3">SLOT IN (MY8-AE96) to Rio3224-D AES OUT (@ fs=96 kHz, through Dante, SRC on, SLOT fs=48 kHz) (Dante Receive Latency set to 0.25 ms)</td><td>Less than 1.1 ms</td></tr>
<tr><td colspan="2">SRC</td><td colspan="4">SRC Lock Range: 39.7 kHz – 101.7 kHz
Sample Rate Ratio Limit: 1:2.6 to 2.6:1</td></tr>
<tr><td colspan="2">Dimensions (W x H x D)</td><td colspan="4">480mm x 88mm x 365 mm (18.9" x 3.5" x 14.37")</td></tr>
<tr><td colspan="2">Net Weight</td><td colspan="4">6.1 kg (13.4lbs)</td></tr>
<tr><td colspan="2">Power Requirements (wattage)</td><td colspan="4">60 W</td></tr>
<tr><td colspan="2">Power Requirements (voltage and hertz)</td><td colspan="4">100-240 V 50/60 Hz</td></tr>
<tr><td colspan="2">Temperature Range</td><td colspan="4">Operating temperature range: 0 – 40 °C
Storage temperature range: -20 – 60 °C</td></tr>
<tr><td colspan="2">Included Accessories</td><td colspan="4">Owner's Manual, AC power cord</td></tr>
</table>

Digital I/O Characteristics

Terminal	Format	Data Length	Level	Audio I/O	Connector
Primary/ Secondary	Dante	24 bit or 32 bit	1000 BASE-T	64 ch Input/64 ch Output@48 kHz 32 ch Input/32 ch Output@96 kHz	etherCON CAT5e

Control I/O Characteristics

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

External DC Input Characteristics

Terminal	Format	Level	Connector
EXT DC INPUT[*1]	—	—	XLR-4-32 type[*2]

*1 Power Requirements: +24V±2V, 3A
*2 1pin=GND, 2pin=NC, 3pin=NC, 4pin=+24V

Dimensions

Unit: mm (inch)

430 (16.9)

360 (14.2)

365 (14.4)

480 (18.9)

88 (3.5)
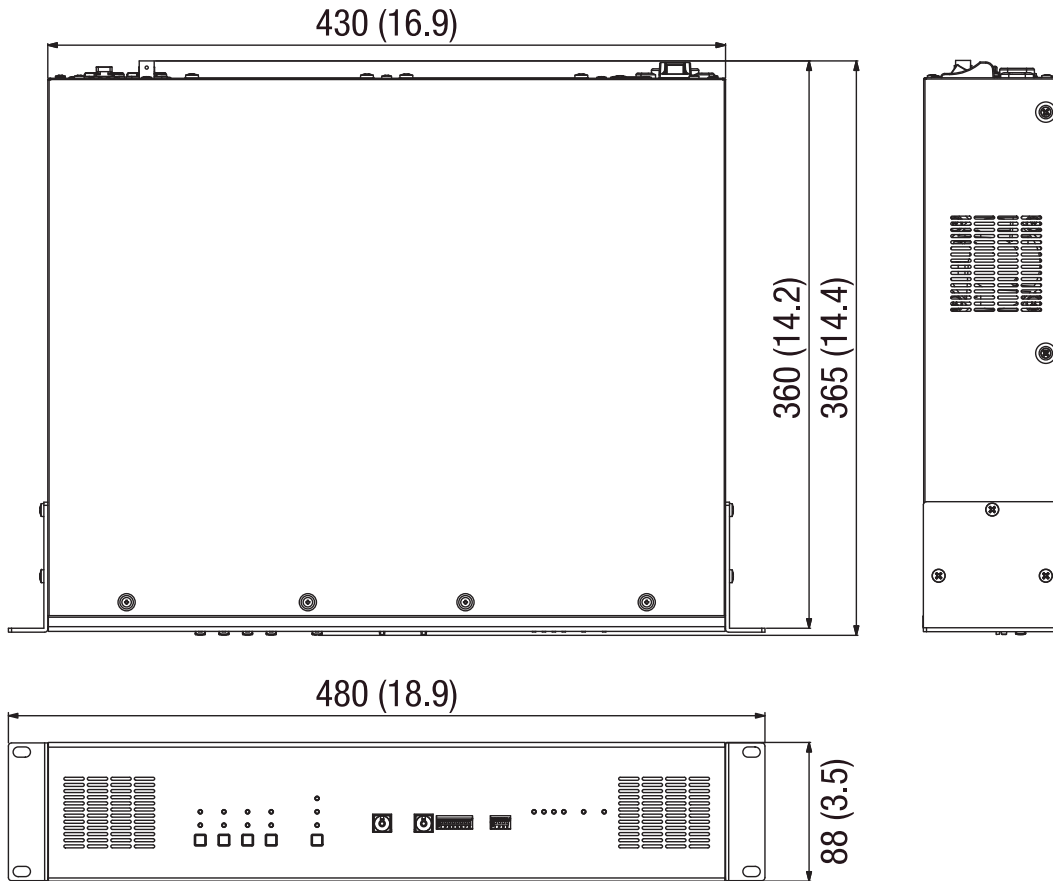
Software

• R Remote

Architectural and Engineering Specifications

The Yamaha RSio64-D shall be a 2U-size Dante/Mini-YGDAI format converting I/O rack with built-in sample rate conversion that can handle up to 64 inputs and 64 outputs while providing router functionality. It shall support a range of more than 30 Mini-YGDAI I/O cards, including those that handle analog, digital, and network audio I/O, as well as processing cards that provide capabilities such as Lake processing and Dan Dugan automatic mixing. The RSio64-D shall be compatible with the "R Remote" software application and support full matrix patching from CL/QL series digital mixing consoles. I/O facilities shall include Word Clock In, EXT DC INPUT for power supply redundancy, and Dante redundancy support. Dimensions shall be 480 (W) x 88 (H) x 365 (D) mm. Weight shall be 6.1 kg.