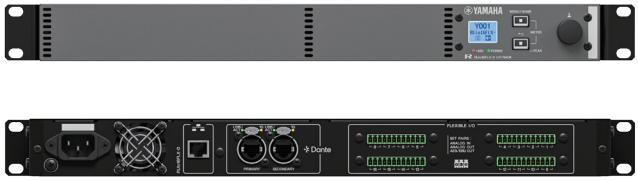
Overview

The Dante-compatible RUio16FLX-D provides 16 channels of either analog input, analog output, or AES/EBU output so you can easily configure systems for use with Yamaha digital mixers and processors. Source channels can be selected in groups of two, and flexible support is provided for I/O expansion.



Features

- I/O: 16 channels of flexible I/O with Euroblock connectors (analog input, analog output, or AES/EBU output)
- Dante: 16 receive channels, 16 transmit channels
- Local display and control of gain and phantom power settings
- Power consumption: 45 W
- Dimensions (W x H x D): 480 × 44 × 369 mm (18.9” x 1.8” x 14.6”)
- Net weight: 4.0 kg (8.8 lb)

Specifications

General Specifications

I/O Connectors	Analog Input	16
	Analog Output	16
	AES/EBU Output	16
Sampling Frequency Rate	External	44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz ±200 ppm +4.1667%, +0.1%, −0.1%, −4.0% ±200 ppm
Signal Delay		Less than 1.7 ms @ Fs = 96 kHz, 2.0 ms @ Fs = 48 kHz Analog INPUT to analog OUTPUT of this product via DM5 over Dante Dante Receive Latency set to 0.25 ms
Power Requirements		100 - 240 V, 50 Hz/60 Hz
Power Consumption		45 W
Heat Dissipation		39 kcal/h
Dimensions	W	480 mm (18.9")
	H	44 mm (1.8")
	D	369 mm (14.6")
Net Weight		4.0 kg (8.8 lb)
NC value*1	Fan Speed LOW	20
	Fan Speed HIGH	25
Approximate Munsell value of exterior color		N5 (Front panel only)
Operating Temperature Range		0°C to 40 °C
Storage Temperature Range		−20°C to 60°C
Included Accessories		Read This First × 1, AC Power cord × 1*2, 3-Pin Euroblock plug × 16, Cable tie × 16

*1 Measurement position: 1m from the front of the unit

*2 Multiple AC power cords which have different kinds of plug shapes may be included depending on the region.

Audio Characteristics 1/2

During the measurement, the output impedance of the signal generator is 150 Ω. The output load impedance is 10 kΩ.

Frequency Response

Fs = 96 kHz or Fs = 48 kHz @ 20 Hz - 20 kHz, reference to the nominal output level @ 1 kHz

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-16	OUTPUT 1-16	10 kΩ	GAIN: +64 dB	–1.5	0.0	0.5	dB

Total Harmonic Distortion

Fs = 96 kHz or Fs = 48 kHz

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-16	OUTPUT 1-16	10 kΩ	+4 dBu @ 20 Hz - 20 kHz, GAIN: +64 dB			0.15	%
INPUT 1-16	OUTPUT 1-16	10 kΩ	+4 dBu @ 20 Hz - 20 kHz, GAIN: 0 dB			0.05	%

* Total harmonic distortion was measured using an 80 kHz, 48 dB/octave low pass filter.

Hum & Noise

Fs = 96 kHz or Fs = 48 kHz, EIN = Equivalent Input Noise

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-16	OUTPUT 1-16	10 kΩ	Rs = 150 Ω, GAIN: +64 dB		–128 EIN		dBu
					–64		dBu
INPUT 1-16	OUTPUT 1-16	10 kΩ	Rs = 150 Ω, GAIN: 0 dB		–85	–83	dBu
All Inputs	OUTPUT 1-16	10 kΩ	Rs = 150 Ω, GAIN: 0 dB Main fader at nominal level and all INPUT 1-16 in faders at nominal level. Measured with DM5 (or DM5 Compact) through Dante.			–71	dBu
-	OUTPUT 1-16	10 kΩ	Residual output noise, Main stereo channel off.		–90	–88	dBu

* Hum & noise levels were measured using an A-weight filter.

Dynamic Range

Fs = 96 kHz or Fs = 48 kHz

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-16	OUTPUT 1-16	10 kΩ	AD+DA, GAIN: 0 dB		109		dB
-	OUTPUT 1-16	10 kΩ	DA Converter		114		dB

* Dynamic range was measured using an A-weight filter.

Crosstalk (@ 1 kHz)

From/To	To/From	Conditions	Min.	Typ.	Max.	Unit
INPUT N	INPUT (N-1) or (N+1)	INPUT 1-16, adjacent inputs, GAIN: 0 dB			–100	dB
OUTPUT N	OUTPUT (N-1) or (N+1)	OUTPUT 1-16, input to output			–100	dB

* Crosstalk was measured using a 22 kHz, 48 dB/octave filter.

Audio Characteristics 2/2

Analog Input Standards*2*3

Input Terminal	GAIN	Actual Load Impedance	For Use with Nominal	Input Level			Connector
				Sensitivity*1	Nominal	Max. before clip	
INPUT 1-16	+64 dB	10 kΩ	50 - 600 Ω Mics 600 Ω Lines	−80 dBu (0.078 mV)	−60 dBu (0.775 mV)	−40 dBu (7.75 mV)	Euroblock (3.5 mm pitch) (Balanced)
	0 dB			−16 dBu (123 mV)	+4 dBu (1.23 V)	+24 dBu (12.3 V)	

*1 Sensitivity is the minimum level needed to output +4 dBu (1.23 V) or the specified level when the gain is set to maximum. (All faders and level controls are set to maximum.)
*2 0 dBu = 0.775 Vrms.
*3 +48 V DC (phantom power) is supplied to the INPUT XLR type connectors via each individual software-controlled switch.

Analog Output Standards*1

Output Terminal	Actual Source Impedance	For Use With Nominal	Output Level*2		Connector
			Nominal	Max. before clip	
OUTPUT 1-16	75 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Euroblock (3.5 mm pitch) (Balanced)

*1 0 dBu = 0.775 Vrms.
*2 You can change the output level for the OUTPUT 1-16 connectors. Contact your Yamaha dealer.

Digital I/O Standards

Terminal	Format	Data Length	Level	Audio	Connector
Dante PRIMARY/SECONDARY	Dante	24-bit / 32-bit	1000Base-T	16ch TX / RX	etherCON CAT5e*1
AES/EBU	AES/EBU Professional use	24-bit	RS-422	16ch output	Euroblock (3.5 mm pitch) (Balanced)

*1 CAT5e or higher cables are recommended for connections.

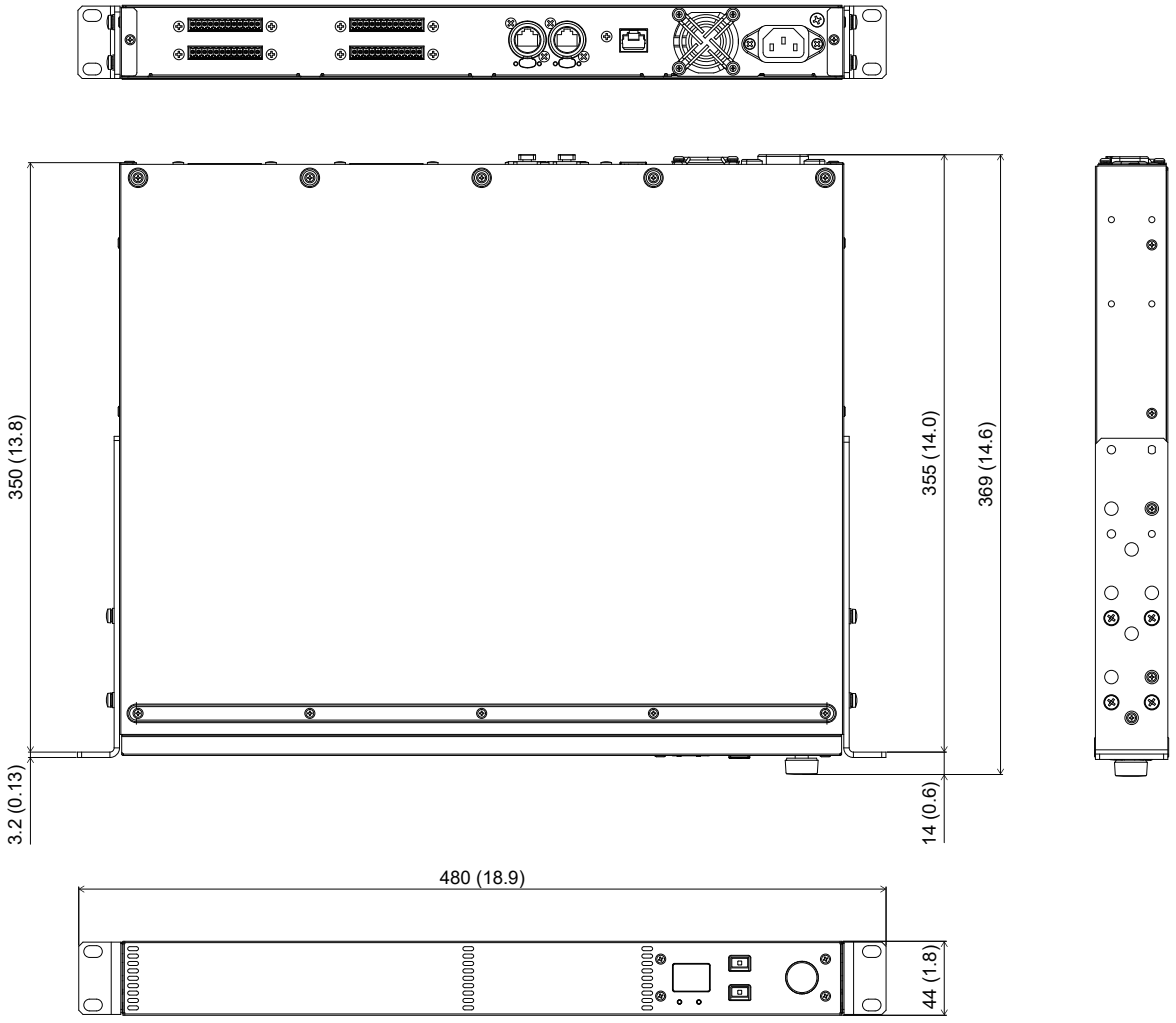
Control I/O Standards

Terminal	Format	Level	Connector
NETWORK	IEEE802.3	1000Base-T / 100Base-TX	RJ45*1

*1 CAT5e or higher cables are recommended for connections.

Dimensions

Unit: mm (inch)



Software

- R Remote

Architectural and Engineering Specifications for RUio16FLX-D

The Yamaha RUio16FLX-D shall be a Dante-compatible I/O rack providing 16 channels of flexible I/O configurable as either analog inputs, analog outputs, or AES/EBU outputs. Source channels shall be selectable in pairs, providing flexible support for I/O expansion with Yamaha digital mixers and processors.
Dante digital audio networking shall be provided through PRIMARY and SECONDARY etherCON connections supporting 1000BASE-T, 24-bit/32-bit audio, 16 transmit channels, and 16 receive channels. A NETWORK terminal shall support IEEE 802.3 at 1000BASE-T/100BASE-TX via an RJ45 connector.
The flexible I/O shall use balanced 3.5 mm-pitch Euroblock connectors. The analog inputs shall support mic and line signals. +48 V DC phantom power shall be individually software-switchable for each analog input, and a front panel display and controls shall be provided for gain and phantom power settings. The display shall also provide level metering functionality. The RUio16FLX-D shall include a Gain Compensation function. The nominal analog output level shall be +4 dBu, with a maximum level of +24 dBu before clipping. When configured for AES/EBU outputs, the unit shall provide 16 channels of 24-bit AES/EBU Professional Use audio over RS-422.
Supported external sampling frequencies shall be 44.1 kHz, 48 kHz, 88.2 kHz, and 96 kHz.
Power requirements shall be 100 - 240 V, 50/60 Hz, and power consumption shall be 45 W. Dimensions shall be 480 (W) × 44 (H) × 369 (D) mm. Net weight shall be 4.0 kg.

*All information subject to change without notice.
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