

Overview

The HY128-MD audio interface card provides MADI connectivity, handling up to 128 input and 128 output channels of 48kHz/24-bit digital audio. Onboard sample rate conversion allows interconnection between devices operating at different sampling rates.



Features

- Transmits and receives up to 128 input and 128 output channels of uncompressed 48 kHz/24-bit digital audio.
- Optical and coaxial connectors support redundant connections. If a problem occurs in one transmission line the system automatically switches to the second connection.
- Dimensions (W x H x D): 125 x 37 x 207 mm
- Net Weight: 0.45 kg

Specifications

General Specifications

Measured with an RPi0622

Sampling Frequency

Parameter	Conditions	Min.	Typ.	Max.	Unit
MADI IN/OUT WCLK IN FOR SRC	1Fs	44.1 kHz	-12.5	-	+12.5 %
	48 kHz				
	2Fs	88.2 kHz			
	96 kHz				
	4Fs	176.4 kHz			
	192 kHz				
Card Clock	Fs=44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz *1	-1000	-	+1000	ppm

*1 This depends on the specification of the host device in which this card is inserted.

MADI Channels & Formats

Parameter	Conditions	Format
1Fs	Fs=44.1kHz/ 48kHz	MADI Single fs 44.1/48k frame, 56/64 channels
2Fs	Fs=88.2kHz/ 96kHz	MADI Double fs 44.1/48k frame, 28/32 channels
		MADI Double fs 88.2/96k frame, 28/32 channels
4Fs	Fs=176.4kHz/ 192kHz	MADI Quad fs 44.1/48k frame, 14/16 channels

Digital Input/Output Characteristics

Terminal	Format	Audio Data Length	Level	Connector
OPTICAL 1 IN/ OPTICAL 2 IN *2	AES10-2008 (MADI)	24-bit	-31 – -14 dBm	SC
OPTICAL 1 IN/ OPTICAL 2 IN *2			-23.5 – -14 dBm	SC
COAXIAL 1 IN/ COAXIAL 2 IN *3			-0.15 – -0.6 Vp-p	BNC
COAXIAL 1 OUT/ COAXIAL 2 OUT *3			0.3 – 0.6 Vp-p	BNC
WCLK IN FOR SRC	-	-	TTL *4	BNC

*2 Use graded index multi-mode optical fiber cables with a core diameter of 62.5 µm/cladding diameter of 125 µm, or a core diameter of 50 µm/cladding diameter of 125 µm.

*3 Use 75 ohm impedance coaxial cables.

*4 75Ω terminated

Temperature Range

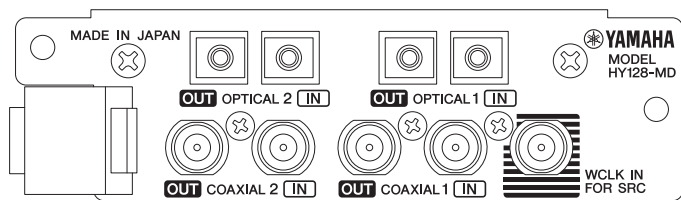
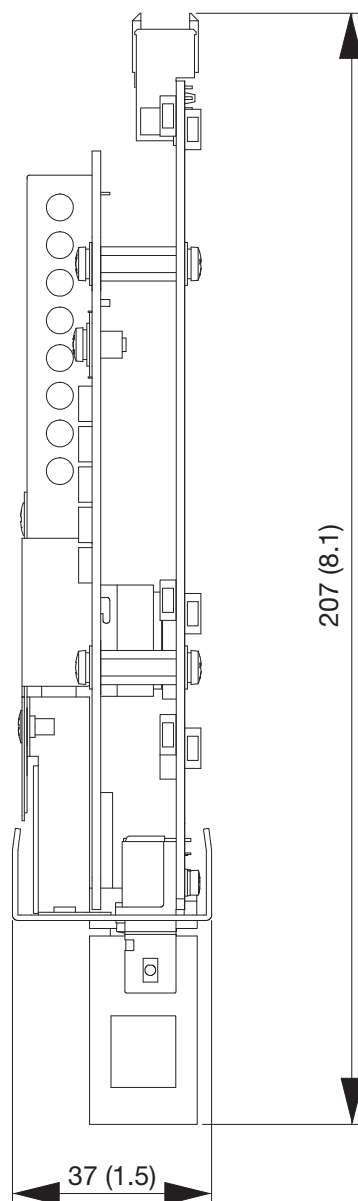
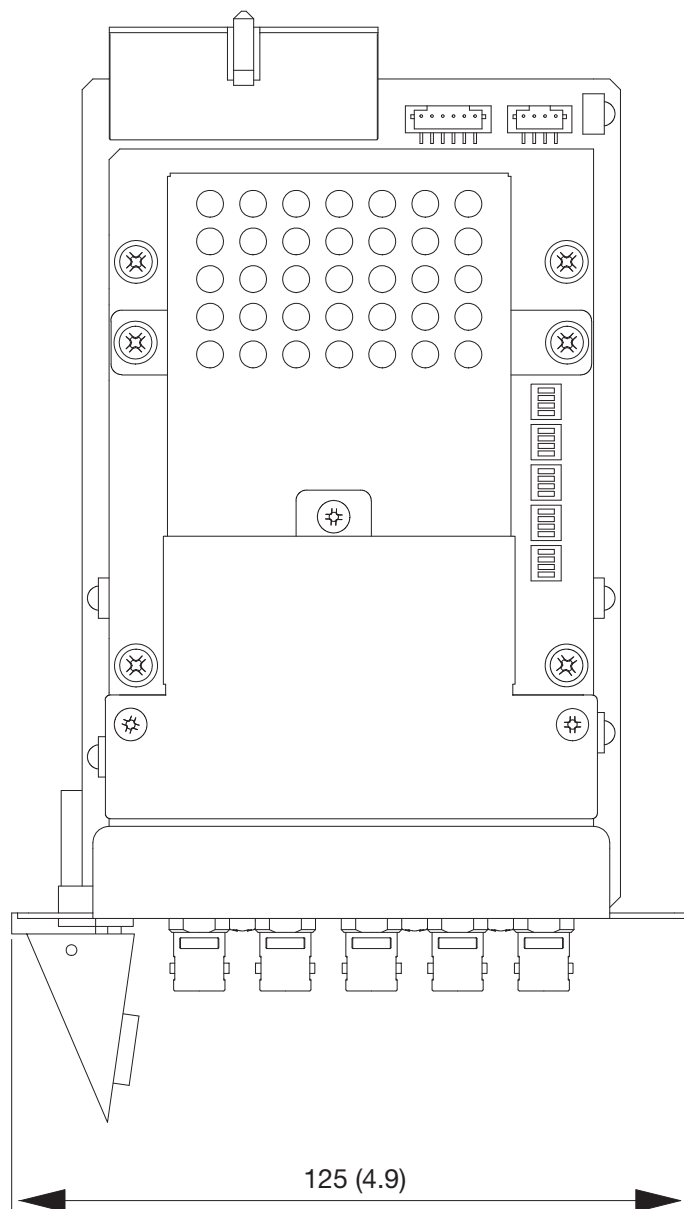
	Conditions	Min.	Typ.	Max.	Unit
Temperature Range	Operating Temperature Range	0	-	40	°C
	Storage Temperature Range	-20	-	60	°C

Others

Dimensions (W x H x D), Weight	125mm x 37mm x 207mm (4.9" x 1.5" x 8.2"), 0.45kg (1.0lbs)
Accessories	Owner's Manual, Card installation instructions leaflet

Dimensions

Unit: mm (inch)



Architectural and Engineering Specifications

The Yamaha HY128-MD shall be an Audio Interface Card for use with the Yamaha RIVAGE PM Digital Mixing System. The HY128-MD shall send/recieve uncompressed digital audio signals of 24-bit 48 kHz quality with a maximum of 128 inputs/128 outputs. Redundant connections are supported with optical and coaxial connectors. Dimensions shall be 125 (W) x 37 (H) x 207 (D) mm. Weight shall be 0.45 kg.

*All information subject to change without notice.

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