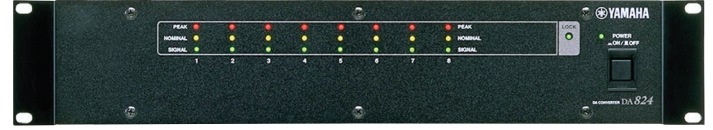


Overview

The DA824 is 8-channel 24-bit DA Converter Compatible with a Range of Digital Audio Formats.



Rear Panel

Features

- 2U size.
- 8-channel 24-bit digital-to-analog converters.
- Balanced XLR and 1/4" phone jack output connectors.
- Maximum +4, +15, +18, or +24 dBm output level individually selectable for each channel.
- Expansion slot supports optional Mini-YGDAI cards for AES/EBU, ADAT and TASCAM digital formats.
- Word clock input and thru connectors.
- Signal, nominal, and peak LED indicators.

Specifications

General Specifications

Sampling Rate	MY8-AE, MY8-TD	39.69–50.88 kHz
	MY8-AT	41.013–50.88 kHz
DA Conversion Resolution	24-bit linear, 128-times oversampling	
Frequency Response	–3, +1 dB, 20 Hz–20 kHz	
Dynamic Range*1	110 dB (typical)	
Gain Error	±1 dB @ 1 kHz	
THD*2	0.05%, 20 Hz–20 kHz	
	0.01% full scale output @ 1 kHz	
Hum & Noise Level*1	–92 dBu (typical)	
Crosstalk	–70 dB between adjacent channels @ 1 kHz	
Signal Delay	0.57 ms (digital input to analog output, fs = 48 kHz)	
Indicators	PEAK	3 dB below full scale
	NOMINAL	14 dB below full scale
	SIGNAL	34 dB below full scale
	LOCK	Wordclock lock
	POWER	Power on/off
Power Requirements	U.S.A. & Canada 120 V AC, 60 Hz Europe 230 V AC, 50 Hz	
Power Consumption	40 W	
Dimensions (W × H × D)	480mm × 97.5mm × 366.8mm (18.9" × 3.84" × 14.44")	
Net Weight	7.5 kg (16.53 lbs)	
Free-air Operating Temperature	10° C to 35° C (50° F to 95° F)	
Storage Temperature	–20° C to 60° C (–4° F to 140° F)	
Power Cord Length	1.9 m	
Supplied Accessories	Owner's Manual	

*1 Measured with a 6 dB/octave filter at 12.7 kHz; equivalent to a 20 kHz filter with infinite dB/octave attenuation.

*2 6 dB/octave filter @ 80 kHz.

** Where dB represents a specific voltage, 0 dB is referenced to 0.775 V rms, 0 dBV is referenced to 1.00 V rms.

Analog Output

Connection	GAIN SW	Actual Source Impedance	For Use with Nominal	Output Level		Connector
				Nominal	Max. before Clip	
OUTPUT 1–8 ¹	+24 dB	150 Ω lines	600 Ω lines	+10 dB (2.45 V)	+24 dB (12.28 V)	XLR-3-32 type (balanced) ² & TRS phone jack (balanced) ³
	+18 dB			+4 dB (1.23 V)	+18 dB (6.16 V)	
	+15 dB			+1 dB (0.87 V)	+15 dB (4.36 V)	
	+4 dBV			–10 dBV (0.316 V)	+4 dBV (1.58 V)	

*1 24-bit 128-times oversampling D/A converters.

*2 XLR-type connectors are electronically balanced (pin 1 = ground, pin 2 = hot, pin 3 = cold).

*3 TRS phone jacks are electronically balanced (tip = hot, ring = cold, sleeve = ground).

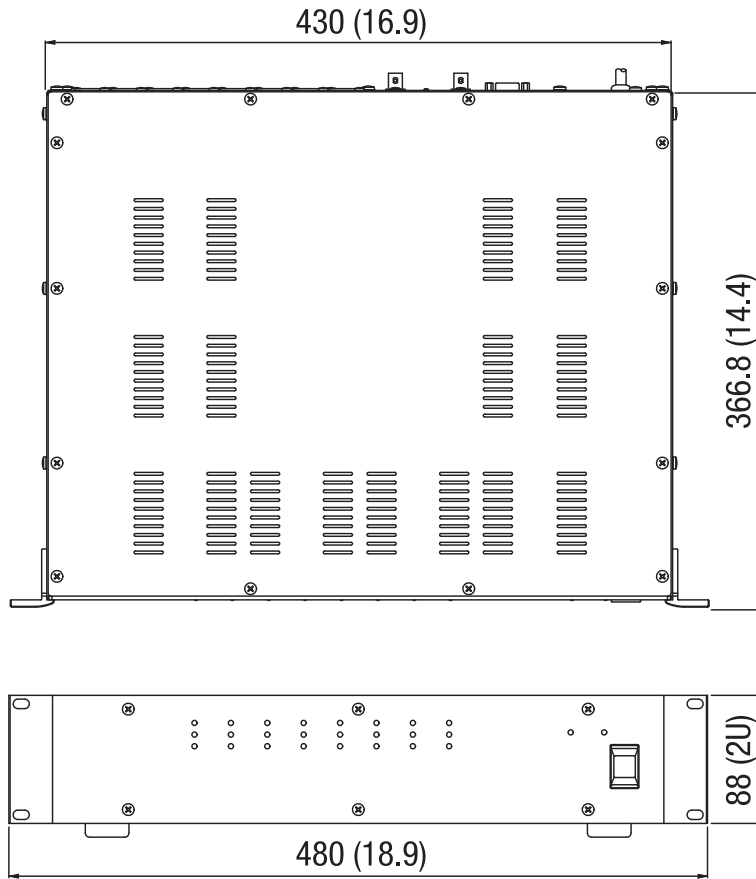
** Where dB represents a specific voltage, 0 dB is referenced to 0.775 V rms, 0 dBV is referenced to 1.00 V rms.

Digital I/O

Connection	Format	Level/Impedance	Connector
COM	—	RS232C	9-pin D-sub (male)
WORD CLOCK IN	—	TTL, 75Ω (ON/OFF)	BNC
WORD CLOCK THRU	—	TTL, 75Ω	BNC
SLOT	mini YGDAI	—	—

Dimensions

Unit: mm (inch)



Architectural and Engineering Specifications

The Yamaha DA824 shall be a 2U-size 8-channel digital-to-analog converter. The DA824 shall have precision 24-bit DA conversion in order to provide high conversion and sonic quality. The following control I/O and expansion facilities shall be provided: an AES/EBU I/O terminal, an ADAT terminal, an MY slot that allows TASCAM format support, a COM port, and word clock IN and THRU terminals. Dimensions shall be 480 (W) x 97.5 (H) x 366.8 (D) mm. Weight shall be 7.5 kg.

*All information subject to change without notice.

*All trademarks and registered trademarks are property of their respective owners.

Created in March, 2017

YAMAHA CORPORATION
P.O.BOX 1, Hamamatsu Japan
www.yamahaproaudio.com