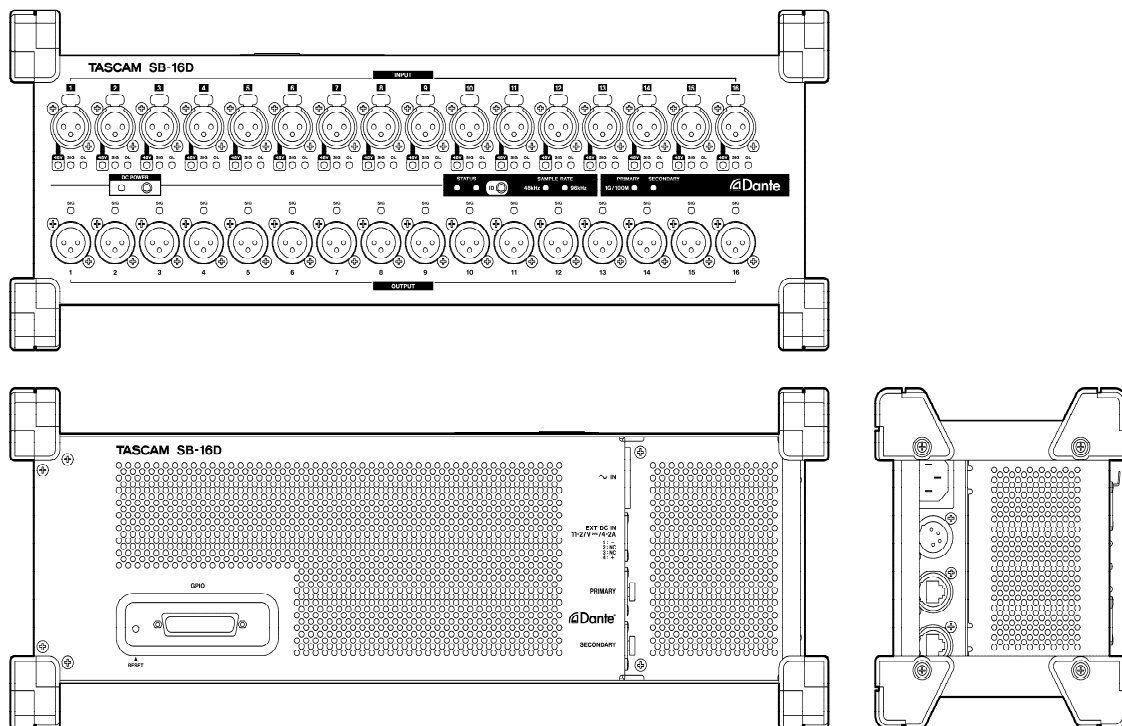


Product Spec Sheet  
16in/16out Dante Stage Box

## SB-16D

AD/DA Converter



### [Specifications and rated values]

#### 【Audio performance】

0 dBu = 0.775 Vrms

#### Mic amp EIN (equivalent input noise)

-128 dBu or less

#### Frequency response

MIC/LINE IN to DANTE OUT

20 Hz - 20 kHz : +0 dB, -0.5 dB (48 kHz) (JEITA)

20 Hz - 40 kHz : +0 dB, -1.0 dB (96 kHz) (JEITA)

DANTE IN to LINE OUT

20 Hz - 20 kHz : +0 dB, -0.5 dB (48 kHz) (JEITA)

20 Hz - 40 kHz : +0 dB, -1.0 dB (96 kHz) (JEITA)

#### Dynamic range

110 dB or more (MIC/LINE to DANTE, PAD = OFF, A.Ref = +4 dBu, GAIN = 12, JEITA)

111 dB or more (DANTE to LINE OUT, 48 kHz sampling frequency)

112 dB or more (DANTE to LINE OUT, 96 kHz sampling frequency)

#### Distortion

0.002 % or less (MIC/LINE IN to DANTE, Input at +4 dBu, PAD = OFF, A.Ref = +4 dBu, GAIN = 12, JEITA)

0.002 % or less (DANTE to LINE OUT, Output at 0 dBFS, JEITA)

#### Crosstalk

100 dB or more (MIC/LINE to LINE OUT, 1 kHz sine wave, JEITA)

A.Ref: Analog Reference Level setting

**【Inputs and outputs】****INPUT 1–16 jacks**

Connectors	: XLR–3–31 equivalent (1: GND, 2: HOT, 3: COLD)
Input levels	
Pad off	
Maximum input level	: +12 dBu (TRIM at minimum)
Minimum input level	: –62 dBu (TRIM at maximum)
Pad on	
Maximum input level	: +32 dBu (TRIM at minimum)
Minimum input level	: –42 dBu (TRIM at maximum)
Input impedance	: 5.0 k $\Omega$ or higher

**NOTE**

+48V phantom power can be supplied to each MIC/ LINE input jack separately.

**OUTPUT 1–16 jacks**

Connectors	: XLR–3–32 equivalent (1: GND, 2: HOT, 3: COLD)
Output impedance	: 100 $\Omega$
Nominal output level	: +6 dBu (D.Ref: –9 dBFS, A.Ref: +6 dBu)
	: +4 dBu (D.Ref: –14/–16/–18/–20 dBFS, A.Ref: +4 dBu)
	: 0 dBu (D.Ref: –18/–20 dBFS, A.Ref: 0 dBu)
Maximum output level	: +15 dBu (D.Ref: –9 dBFS, A.Ref: +6 dBu)
	: +18 dBu (D.Ref: –18 dBFS, A.Ref: 0 dBu)
	: +20 dBu (D.Ref: –20 dBFS, A.Ref: 0 dBu)
	: +18 dBu (D.Ref: –14 dBFS, A.Ref: +4 dBu)
	: +20 dBu (D.Ref: –16 dBFS, A.Ref: +4 dBu)
	: +22 dBu (D.Ref: –18 dBFS, A.Ref: +4 dBu)
	: +24 dBu (D.Ref: –20 dBFS, A.Ref: +4 dBu)
	D.Ref: Digital Reference Level setting
	A.Ref: Analog Reference Level setting

**Dante PRIMARY/SECONDARY connectors**

Connector	: etherCON Cat5e compatible connector*
Transmission protocol	: Dante
Gigabit Ethernet standard	: 1000BASE-T (IEEE 802.3ab)
Cables: category 5e or faster STP cables	

\* etherCON is a registered trademark of Neutrik AG.

**GPIO connector**

Connector	: 25-pin D-sub (8-in/8-out, female, inch-standard)
	● See “GPIO connector overview” on page 15 for details about GPIO connector and assignments.

**【Other】****Power**

AC	100–240V, 50/60Hz
External power supply (DC)	11–27V/4–2A
	● DC voltage/current range: 11V/4A – 27V/2A

**Power consumption**

44W

**Dimensions**

<b>With standard feet attached</b>	
	454.0 × 179.6 × 140.0mm (W × H × D)
<b>With rackmount ears attached</b>	
	482.8 × 132.0 × 120.0mm (W × H × D)

**Weight**

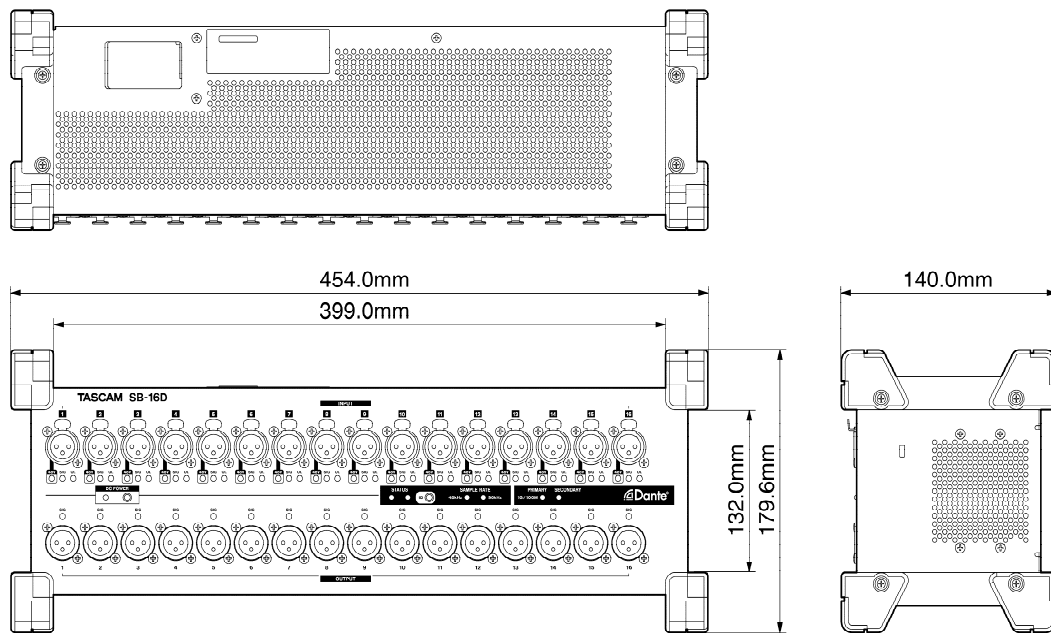
4.5 kg

**Operating temperature range**

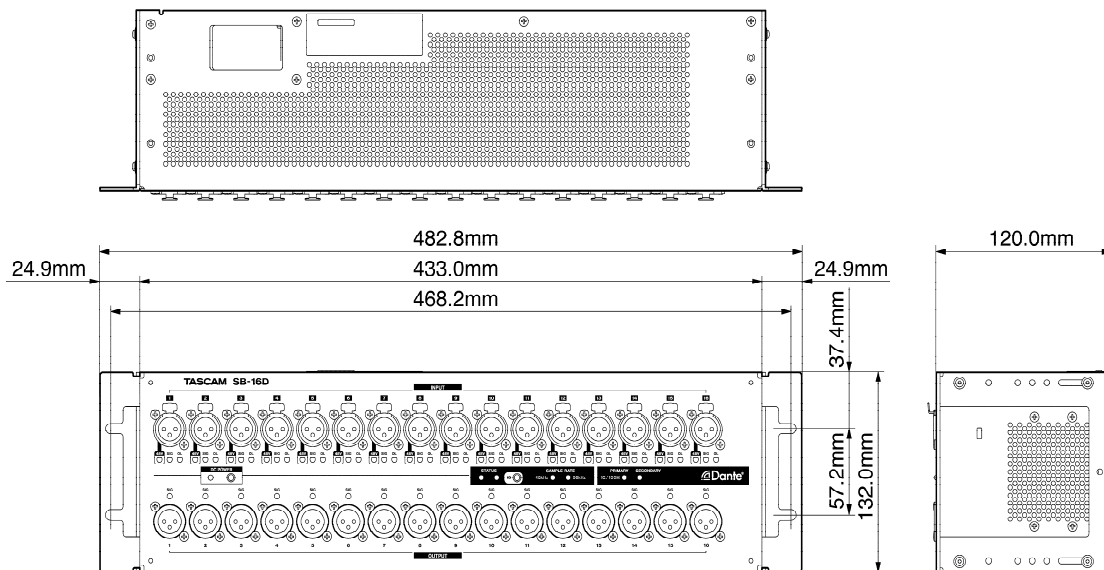
0 – 40° C (32 – 104° F)

[Dimensional drawings]

Foot



Rack Mount



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※All information included in this document is as of Jan, 2023.