

Specifications — DA6 YUV A

Video

Gain.....	Unity (0 dB)
Peaking	0 dB
Bandwidth.....	350 MHz (-3 dB), fully loaded
Differential phase error	<1.0° at 5 MHz
Differential gain error.....	<1.0% at 5 MHz

Video input

Number/signal type.....	1 RGBS (only when the digital audio channel is not used), RGsB, RsGsBs, HDTV component video, S-video, composite video
Connectors	3 or 4 female BNC (the fourth can be used for digital audio input instead of video sync)
Nominal level (at unity gain)	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB, for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 180 kHz
Vertical frequency.....	15 Hz to 170 Hz
Return loss.....	<-38 dB @ 5 MHz
DC offset (max. allowable).....	5.0 V (in AC coupling mode)
Input coupling.....	AC/DC, switch-selectable

Video output

Number/signal type.....	6 RGBS (only when the digital audio channel is not used), RGsB, HDTV component video, S-video, composite video (follows input type)
Connectors	6 x 4 female BNC
Nominal level	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB, for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 Vp-p to 1.5 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	<-44 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset

Sync

Input/output type	RGBS (only when the digital audio channel is not used), RGsB, RsGsBs, bi-level and tri-level sync
Input level	Analog or TTL: 0.5 V to 5 Vp-p
Output level	TTL: 5 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. input voltage	5.0 Vp-p
Max. propagation delay	35 ns
Max. rise/fall time	4 ns
Polarity.....	Positive or negative (follows input)

Specifications — DA6 YUV A, cont'd

Digital audio

NOTE *Digital audio input/output is available when RGBS is not used as the video input signal.*

Sampling rates 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Digital audio input

Number/signal type..... 1 Dolby® Digital, DTS, AES/EBU

Connectors 1 female BNC

Impedance..... 510 ohms

Nominal level 1 V (for consumer level) or 2 V (for professional level)

Min./max. input levels..... 0.5 V to 5 Vp-p

Digital audio output

Number/signal type..... 6 Dolby Digital, DTS, AES/EBU

Connectors 6 female BNC

Impedance..... 75 ohms

Output level 2.5 Vp-p, 75 ohms terminated

Max. propagation delay 35 ns

Max. rise/fall time 4 ns

Polarity..... Positive or negative (follows input)

General

Power 100 VAC to 240 VAC, 50-60 Hz, 10 watts, internal

Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling Convection, no vents

Mounting

Rack mount Yes, with included rack/through-desk mounting kit

Enclosure type Metal

Enclosure dimensions..... 1.75" H x 17.5" W x 8.5" D (1U high, full rack wide)
(4.4 cm H x 44.4 cm W x 21.6 cm D)
(Depth excludes connectors.)

Product weight 3.9 lbs (1.8 kg)

Shipping weight 7 lbs (4 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety..... CE, c-UL, UL

EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI

Warranty 3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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