

Specifications — ADA 2 300/300HV, ADA 4/6 300 MX, ADA 2/4/6 300 MX HV

Video

Gain	ADA 2 300 /300 HV Unity
	ADA 4/6 300 MX/MX HV . 0.7V or 1.0V, switch-selectable
Bandwidth	ADA 2 300 MX/MX HV ... 400 MHz (-3dB), fully loaded
	ADA 4/6 300 MX/MX HV . 300 MHz (-3dB), fully loaded

Video input

Number/signal type	ADA 2 300, ADA 4/6 300 MX	1 RGBS, RGsB, RsGsBs, component video, S-video, composite video
	ADA 2 300 HV, ADA 4/6 300 MX HV	1 RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, composite video
Connectors	ADA 2 300, ADA 4/6 300 MX	4 BNC female
	ADA 2 300 HV, ADA 4/6 300 MX HV	5 BNC female
Minimum/maximum levels	Analog	0.3V to 1.5V p-p with no DC offset at unity gain
Impedance		75 ohms
Horizontal frequency	ADA 2 300, ADA 4/6 300 MX	15 kHz to 135 kHz
	ADA 2 300 HV, ADA 4/6 300 MX HV	15 kHz to 150 kHz
Vertical frequency	ADA 2 300/300 HV	30 Hz to 150 Hz
	ADA 4/6 300 MX/MX HV	15 Hz to 140 Hz
Return loss	ADA 2 300/300 HV	-42dB @ 5 MHz
	ADA 4/6 300 MX/MX HV	-38.5dB @ 5 MHz
AC/DC coupling		Yes, switch-selectable

Video output

Number/signal type	ADA 2 300, ADA 4/6 300 MX	2/4/6 RGBS, RGsB, RsGsBs, component video, S-video, composite video
	ADA 2 300 HV, ADA 4/6 300 MX HV	2/4/6 RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, composite video
Connectors	ADA 2 300, ADA 4/6 300 MX	2/4/6 x 4 BNC female (depending on the model)
	ADA 2 300 HV, ADA 4/6 300 MX HV	2/4/6 x 5 BNC female (depending on the model)
Minimum/maximum levels		0.3V to 1.5V p-p
Impedance		75 ohms
Return loss	ADA 2 300/300 HV	-80dB @ 5 MHz
	ADA 4/6 300 MX/MX HV .	-44dB @ 5 MHz
DC offset	ADA 2 300/300 HV	±5mV maximum, AC coupled
	ADA 4/6 300 MX/MX HV .	±13mV maximum with input at 0 offset

Sync

Input type	RGBHV (HV models only), RGBS, RGsB, RsGsBs
Output type	RGBHV (HV models only), RGBS, RGsB, RsGsBs
Input level	Analog or TTL 0.5V to 5V p-p
Output level	
ADA 2 300/300 HV	5V p-p (TTL)
ADA 4 300 MX/MX HV ...	Analog or TTL (selectable) 1.0V, 4.0V p-p
ADA 6 300 MX/MX HV ...	Analog or TTL (selectable) ... 0.5V to 5V p-p
Gain	1V or 4V p-p, switch-selectable
Input impedance	510 ohms
Output impedance	75 ohms
Max input voltage	5V p-p
Input sensitivity	0.5V to 5.0V p-p
Max. propagation delay	
ADA 2 300/300 HV	60 nS
ADA 4/6 300 MX/MX HV ..	34.8 nS
Max. rise/fall time	
ADA 2 300/300 HV	4 nS
ADA 4/6 300 MX/MX HV ..	4.8 nS
Polarity	Positive or negative

General

Power	
ADA 2 300/300 HV	100VAC to 240 VAC, 50/60 Hz, 2 watts, external, auto-switchable; to 9VDC, 1 A power supply.
All other models	100VAC to 240VAC, 50/60 Hz, internal, auto-switchable
ADA 4 300 MX/MX HV	7 watts
ADA 6 300 MX/MX HV	10 watts
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	
ADA 2 300/300 HV	No
All other models	Yes, with optional 2U shelf # 60-030-01, 2U front panel #60-030-10, or 3U front panel #60-126-01
Enclosure type	Metal
Enclosure dimensions	
ADA 2 300/300 HV	1.75" H x 4.6" W x 4.7" D 4.4 cm H x 11.7 cm W x 11.9 cm D (Depth excludes connectors.)
ADA 4/6 300 MX	3.4" H x 8.5" W x 6.3" D (2U high, <half rack width) 8.6 cm H x 21.6 cm W x 16.0 cm D (Depth excludes connectors.)
ADA 4/6 300 MX HV	4.3" H x 8.4" W x 6.3" D (<3U high, <half rack width) 10.8 cm H x 21.0 cm W x 16.0 cm D (Depth excludes connectors.)
Product weight	
ADA 2 300	1.3 lbs (0.6 kg)
ADA 2 300 HV	1.4 lbs (0.6 kg)
ADA 4 300 MX	3.5 lbs (1.6 kg)
ADA 4 300 MX HV	4.0 lbs (1.8 kg)
ADA 6 300 MX	3.9 lbs (1.8 kg)
ADA 6 300 MX HV	4.4 lbs (2.0 kg)
Shipping weight	
ADA 2 300, ADA 2 300 HV	3 lbs (1.4 kg)
ADA 4 300 MX	5 lbs (2.3 kg)

ADA 4 300 MX HV	6 lbs (2.7 kg)
ADA 6 300 MX	6 lbs (2.7 kg)
ADA 6 300 MX HV	7 lbs (3.2 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE *Specifications are subject to change without notice.*

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