

IN2116 Table Mountable Installation Interface with Modular A/V Connector Plates



Tel 714. 921. 4100
Fax 714. 921. 4160



The **IN2116** is a high performance video interface for analog video signals including VGA, SVGA, XGA, MAC, SUN and other high resolution workstations. The **IN2116** mounts neatly under a conference or boardroom table, computer workstation, or a podium shelf using integral mounting brackets and (4) #6 wood screws (included). The **IN2116** includes an internal universal power supply and plugs directly into an available A/C outlet.

Easy Operation - The user simply brings in a computer and connects to the nearest **IN2116** table mountable interface. The **IN2116** even includes a front panel A/C convenience outlet to power a laptop computer. Tucked away under the table or podium shelf, the **IN2116** provides easy access for making computer and A/V connections, reduces equipment clutter and complements the decor of boardroom, conference room and training room installations.

Modular A/V Connector Plate - In addition to its interface capability, the **IN2116** also acts as a modular A/V connector plate. The **IN2116** front panel accepts up to four A/V connector modules, available with a variety of popular connectors. Two of the most popular A/V connector modules for table mounted installations are an RJ45 jack for quick access to the computer network and a 3.5mm stereo mini or dual RCA jacks to connect the computer sound card output to the room sound system. The **IN2116** can hold double size connector plates to accommodate large connectors such as XLR. The **IN2116** simplifies the design and installation process since a single unit fills the function of both video interface and A/V connector plate.

Partial list of A/V modules on reverse.

15-Pin HD VGA Standard Connectors - The **IN2116** connects directly to VGA graphics cards and VGA local monitors using high resolution coaxial VGA extension cables such as the **IN8000** series. Input / output adapter cable sets are also available in a variety of lengths for MAC (15-Pin D), SUN (13W3) and workstations (4 or 5 BNC).

Ultra High Resolution Amplification - The **IN2116** provides superb performance and maximum image clarity at any resolution. Several design elements combine to provide this level of performance: video bandwidth in excess of 400 MHz, a buffered local monitor output, and input / local monitor output cables constructed of high resolution coaxial cables.

Stereo Audio Signal Balancing - The **IN2116** can be ordered with the **IN9370** Balanced Audio Buffer Module. This optional factory installed module takes unbalanced stereo audio signals applied to a stereo audio connector plate and converts them to balanced audio. Balanced audio signals are output on a 5-pin captive screw terminal connector.

FEATURES

- 400 MHz Video Bandwidth
- Low Profile Unit Mounts Discretely Under a Conference / Boardroom Table, Podium Shelf, Workstation
- Available in Two Finishes:
IN2116B - Black
IN2116W - White (PMS Cool Grey 3)
- Front Panel A/C Outlet Provides Power for a Laptop Computer or other A/V Equipment
- Converts Unbalanced Audio Signals to Balanced Audio Using Optional **IN9370** Audio Buffer Module
- Horizontal Position Control
- Unit Accepts up to Four Audio / Video Connector Modules to Create a Custom A/V Connector Plate Optimized for Each Application

SPECIFICATIONS

INPUT:

Connector: 15-pin HD male - standard VGA pin-outs
 RGB Signals: Analog video, 1.5 Vp-p max.
 Sync Signals: TTL
 Horizontal Sync Range: 30 to 130 KHz Vertical Sync Range: 30 to 120 Hz

OUTPUTS:

Buffered Local Monitor: 15-pin HD female - standard VGA pin-outs
 Main Output: 5 female BNC - RGBHV, RGBS, or RGSB format
 Bandwidth: 400 MHz @ -3 dB with .7 volt input signal

A/V CONNECTOR MODULES:

IN2116 Faceplate accepts up to (4) IN93XX A/V Connector Modules - See List on Reverse

GENERAL:

Power Supply: Internal Switch Mode Power Supply
 Front Panel A/C Outlet: US Version: Edison Female - 800 Watts Max. Call for A/C Outlet Connector Information on British, European, and Australian Models
 Input / Output Cables: See List on Reverse
 Optional Equipment: See List on Reverse
 Shipping Weight: 4 lbs. / 2 Kg Product Weight: 2 lbs. / 0.9 Kg
 Dimensions: 1.8" x 12.5" x 4.78" / 4.6 x 31.7 x 12.1 cm
 Regulatory Approvals: UL1950, CAN/CSA-22.2 No.950, Third Edition
 CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN0950-92

Description continued on back

CRT / LCD / DMD / Plasma Display Friendly Output Signal - Several dipswitches are available to optimize the output signal characteristics for virtually any compatible data grade display device.

Selectable Output Sync Format - The unit can be set for RGBHV, RGBS or RGSB output sync as required by the data display device and signal distribution system. The **IN2116** does not strip sync off of the Green signal (i.e. RGSB input signals appear at the output as RGSB).

Convenient Controls & Features - A hand adjustable **horizontal position control** on the **IN2116** front panel allows for precise centering of the image within the data display area. The **dipswitch access socket** located on the underside of the interface provides quick access to the dipswitches for setting output sync format, sync polarity mirroring, serration pulses enable / disable, horizontal control enable / disable, and VGA / MAC monitor emulation enable / disable.

A/V CONNECTOR MODULES - PARTIAL LIST:

When ordering the **IN2116**, please specify black or white A/V connector modules from the list below:

- | | |
|--|---|
| IN9350B / IN9350W - BLANK PLATE | IN9362B / IN9362W - (1) 15-Pin HD Male |
| IN9351B / IN9351W - (2) BNC Female | IN9363B / IN9363W - (1) S-Video Female & (1) BNC Female |
| IN9352B / IN9352W - (1) S-Video Female | IN9364DB / IN9364DW - (1) 4-Pin XLR - Double Size Plate |
| IN9353B / IN9353W - (2) RCA Female | IN9365DB / IN9365DW - (1) 3-Pin XLR - Double Size Plate |
| IN9354B / IN9354W - (2) 1/4" Stereo Female | IN9366DB / IN9366DW - (1) 6-Pin XLR - Double Size Plate |
| IN9355B / IN9355W - (2) 3.5mm Mini Stereo Female | IN9367DB / IN9367DW - Blank Plate - Double Size |
| IN9357B / IN9357W - (2) F Connector Female | IN9368TB / IN9368TW - Blank Plate - Triple Size |
| IN9358B / IN9358W - (1) RJ11 Female Phone Jack | IN9369QB / IN9369QW - Blank Plate - Quad Size |
| IN9359B / IN9359W - (1) RJ45 Female Data Jack | IN9372DB / IN9372DW - A/V Super Module: (2) RCA - Audio, (1) RCA - Video, (1) 4-Pin Mini DIN |
| IN9360B / IN9360W - (1) Switch w/ LED & (1) 3.5mm Mini Stereo | IN9373B / IN9373W - (2) RCA Female to Female Barrel |
| IN9361B / IN9361W - (1) 15-Pin HD Female | |

Additional Connector Modules and Custom Engraving Available - Call for Pricing and Lead Time

ACCESSORIES INCLUDED

- IN9230** Power Cord - IEC Female to Edison Male, 6' Long - US Only
- IN9334** 3/32" Allen Wrench for **IN2116** Connector Module Set Screws
(4) #6 Wood Screws for Mounting Interface, 1/2" Long

ACCESSORIES FOR INSTALLATION SERIES INTERFACES

Input / Output Adapter and Extension Cables

The input / output cables listed below can be used with any of the following interface, distribution amplifier and switcher models: IN2100 / IN2110 / IN2111 / IN2112 / IN2114 / IN2116 / IN2200 / IN3262 / IN3262D / IN3264 / IN3268 / IN3662 / IN3666

		VGA	MAC	SUN (13W3)	5-BNC / RGBHV	4-BNC / RGBS
Input Cables	6' Long	IN8006	IN9140	IN9142	IN9048	IN9100
	12' Long	IN8012			IN9046	
	25' Long	IN8025	IN9144	IN9146	IN9046-L25	
Local Monitor	3' Long	N/A	IN9141	IN9143		
	6' Long	IN8006			IN9047	
Output Cables	12' Long	IN8012			IN9045	
	25' Long	IN8025	IN9145	IN9147	IN9045-L25	

RGB Output Cables	3-Conductor	4-Conductor	5-Conductor	6-Conductor
Standard Resolution	N/A	IN7000-4	IN7000-5	
Standard Resolution, Plenum	N/A	IN7000P-4	IN7000P-5	
High Resolution	IN7100-3	IN7100-4	IN7100-5	
Ultra High Resolution	IN7200-3	IN7200-4	IN7200-5	IN7200-6
Super High Resolution			IN7300-5	IN7300-6
Super High Resolution, Plenum				IN7300P-6

All cable grades are available in lengths from 3' to 250' pre-terminated with high quality BNC connectors or as bulk cable.

Balanced Audio Module

- IN9370** Audio buffer module - converts unbalanced stereo audio signals to balanced audio. The **IN9370** input is normally connected to a 3.5mm Stereo Audio Module or Dual RCA Stereo Audio Module.

Installation Accessories

- IN8800** 18 Conductor Super High Resolution Installation Cable: (3) Super High Res. Coax, (3) Mini Coax, (5) 26 Gauge Twisted Pairs, (1) 20 Gauge Pair

Modular A/V Connector Plates and Accessories for IN2111R / IN2111R2 / IN2111Q / IN2111FT / IN2111F8 / IN2112F8 / IN2112R / IN2116 / IN3260 / IN9166 / IN9167 / IN9168 – Updated February 15, 1999

Connector Module Black / White	Description	Front Connector / Termination	Back Connector / Termination	Module Size
IN9350B / IN9350W	Blank Plate - Single Size	None	None	Single
IN9351B / IN9351W	(2) BNC Barrel	(2) BNC Female	(2) BNC Female	Single
IN9352B / IN9352W	(1) S-Video	4-Pin Mini DIN Female	4 Bare Wires	Single
IN9353B / IN9353W	(2) RCA	(1) RCA Female - White (1) RCA Female - Red	(2) Solder Lug Terminals (2) Solder Lug Terminals	Single
IN9354B / IN9354W	(2) 1/4" Stereo Phono	(2) 1/4" Stereo Phono Female	(3) Solder Lug Terminals (3) Solder Lug Terminals	Single
IN9355B / IN9355W	(2) 3.5mm Mini Stereo	(2) 3.5mm Mini Stereo Female	(3) Solder Lug Terminals (3) Solder Lug Terminals	Single
IN9356B / IN9356W	(1) 5-Pin Captive Screw Terminal	Phoenix Brand 5-Pin Captive Screw Terminal	(5) Solder Lug Terminals	Single
IN9357B / IN9357W	(2) F-Connector Barrel	(2) F-Connector Female	(2) F-Connector Female	Single
IN9358B / IN9358W	(1) RJ11	RJ11 Female – Leviton Brand	6-Pin Punch Block	Single
IN9359B / IN9359W	(1) RJ45	RJ45 Female – Leviton Brand	8-Pin Punch Block for CAT 5 Cable	Single
IN9360B / IN9360W	(1) Contact Closure Switch with LED & (1) 3.5mm Stereo Mini	Square White Single Pole Switch with Integral LED	(4) Solder Lug Terminals	Single
		3.5mm Stereo Mini Female	(3) Solder Lug Terminals	
IN9361B / IN9361W	(1) 15-Pin HD	15-Pin HD Female	15-Pin HD Female	Single
IN9362B / IN9362W	(1) 15-Pin HD	15-Pin HD Male	15-Pin HD Male	Single
IN9363B / IN9363W	(1) S-Video Barrel & (1) BNC Barrel	4-Pin Mini DIN Female	4-Pin Mini DIN Female	Single
		BNC Female	BNC Female	
IN9364DB / IN9364DW	(1) 4-Pin XLR	Neutrik Brand 4-Pin XLR Female	(4) Solder Cups	Double
IN9365DB / IN9365DW	(1) 3-Pin XLR	Neutrik Brand 3-Pin XLR Female	(3) Solder Cups	Double
IN9366DB / IN9366DW	(1) 6-Pin XLR	Neutrik Brand 6-Pin XLR Female	(6) Solder Cups	Double
IN9394DB / IN9394DW	(1) 4-Pin XLR	Switchcraft 4-Pin XLR Female	(4) Solder Cups	Double
IN9395DB / IN9395DW	(1) 3-Pin XLR	Switchcraft 3-Pin XLR Female	(3) Solder Cups	Double
IN9396DB / IN9396DW	(1) 6-Pin XLR	Switchcraft 6-Pin XLR Female	(6) Solder Cups	Double
IN9367DB / IN9367DW	Blank Plate - Double	None	None	Double
IN9368TB / IN9368TW	Blank Plate - Triple	None	None	Triple
IN9369QB / IN9369QW	Blank Plate - Quad	None	None	Quad
IN9372DB / IN9372DW	A/V Super Module: (2) RCA - Audio L / R & (1) RCA - Video & (1) S-Video	RCA Female - White	(2) Solder Lug Terminals	Double
		RCA Female - Red	(2) Solder Lug Terminals	
		RCA Female - Yellow	(2) Solder Lug Terminals	
		4-Pin Mini DIN Female	4 Bare Wires	

Connector Module Black / White	Description	Front Connector / Termination	Back Connector / Termination	Module Size
IN9373B / IN9373W	(2) RCA Barrel	(2) RCA Female	(2) RCA Female	Single
IN9374B / IN9374W	(1) 9-Pin D Gender Changer - Female	(1) 9-Pin D Female	(1) 9-Pin D Female	Single
IN9375B / IN9375W	(2) Keyboard / Mouse Connectors	(2) 6-Pin Mini DIN Female	(2) 6-Pin Mini DIN Female	Single
IN9376B / IN9376W	A/V Super Module with Barrel Connectors: (2) RCA - Audio L / R & (1) RCA - Video & (1) S-Video	RCA Female - White	RCA Female	Double
		RCA Female - Red	RCA Female	
		RCA Female - Yellow	RCA Female	
		4-Pin Mini DIN Female	4-Pin Mini DIN Female	
IN9377DB / IN9377DW	(2) RCA - Audio L / R & (1) RCA - Video	RCA Female - White	(2) Solder Lug Terminals	Double
		RCA Female - Red	(2) Solder Lug Terminals	
		RCA Female - Yellow	(2) Solder Lug Terminals	
IN9378B / IN9378W	(1) 9-Pin D Gender Changer - Male	(1) 9-Pin D Male	(1) 9-Pin D Male	Single
IN9381B / IN9381W	(1) BNC Barrel	(1) BNC Female	(1) BNC Female	Single
IN9382B / IN9382W	(1) F-Connector Barrel	(1) F-Connector Female	(1) F-Connector Female	Single
IN9383B / IN9383W	(1) RCA Barrel	(1) RCA Female	(1) RCA Female	Single
IN9384B / IN9384W	(1) 1/4" Stereo Phono	(1) 1/4" Stereo Phono Female	(3) Solder Lug Terminals	Single
IN9385B / IN9385W	(1) 3.5mm Mini Stereo	(1) 3.5mm Mini Stereo Female	(3) Solder Lug Terminals	Single
IN9386B / IN9386W	(1) BNC Barrel & (1) 3.5mm Stereo Mini	BNC Female	BNC Female	Single
		3.5mm Mini Stereo	(3) Solder Lug Terminals	
IN9387B / IN9387W	(1) S-Video & (1) 3.5mm Stereo Mini	4-Pin Mini DIN Female	4 Bare Wires	Single
		3.5mm Mini Stereo	(3) Solder Lug Terminals	
IN9388B / IN9388W	(1) RCA for Video & (1) 3.5mm Stereo Mini	Yellow RCA Female	(2) Solder Lug Terminals	Single
IN9389B / IN9389W	(1) 6-Pin Mini DIN Barrel (PS/2 Keyboard / Mouse)	(1) 6-Pin Mini DIN Female	(1) 6-Pin Mini DIN Female	Single

Audio Buffer Modules - Convert Unbalanced Stereo Audio to Balanced Stereo Audio

Module	Description
IN9370FT Factory Installed Option for IN2111Q / IN2111FT / IN2116	Stereo Audio Buffer Module - Accepts an Unbalanced Stereo Audio Signal and Outputs it as a Balanced (factory default) or Unbalanced Stereo Audio Signal. 5-Pin Phoenix Brand Captive Screw Connector for Audio Output.
IN9370F8 Factory Installed Option for IN2114F8	Stereo Audio Buffer Module mounted adjacent to IN2114F8 on Steel City AFM-8 Triple Space Connector Plate. Accepts an Unbalanced Stereo Audio Signal and Outputs it as a Balanced (factory default) or Unbalanced Stereo Audio Signal. 5-Pin Phoenix Brand Captive Screw Connector for Audio Output.
IN9371FT Factory Installed Option for IN2111Q / IN2111FT / IN2116	Stereo Audio Buffer Module with 2 Inputs and Remote Input Selection via Contact Closure Control - Accepts One or Two Unbalanced Stereo Audio Signals and Outputs the Selected Signal as a Balanced (factory default) or Unbalanced Stereo Audio Signal. (2) 5-Pin Phoenix Brand Captive Screw Connectors for Audio Output.
IN9371F8 Factory Installed Option for IN2114F8	Stereo Audio Buffer Module with 2 Inputs and Remote Input Selection via Contact Closure Control. Module mounted adjacent to IN2114F8 on Steel City AFM-8 Triple Space Connector Plate. Accepts One or Two Unbalanced Stereo Audio Signals and Outputs the Selected Signal as a Balanced (factory default) or Unbalanced Stereo Audio Signal. (2) 5-Pin Phoenix Brand Captive Screw Connectors for Audio Output.

Optional Installation Accessories

Model	Description
IN9153	2-Gang Junction Box - 2.5" Deep (IN2114 / IN9166)
IN9157	2-Gang Junction Box - 3.5" Deep - (IN2114 / IN9166) for use with IN7200 Series Cables and Other Cables Requiring Large Radius Curves
IN9161	3-Gang Junction Box - 2.5" Deep (IN3260 / IN9167)
IN9162	3-Gang Junction Box - 3.5" Deep (IN3260 / IN9167)
IN9164	4-Gang Junction Box - 2.5" Deep (IN2111Q / IN9168)
IN9165	4-Gang Junction Box - 3.5" Deep (IN2111Q / IN2112 / IN9168)
IN9158	Steel City AFM-6 Floor Box with Grey Trim
IN9159	Steel City AFM-8 Floor Box with Grey Trim
IN9154	3/4" EMT Conduit Coupler, Set-Screw Type - 10 Piece Minimum Order
IN9155	3/4" Romex Connector, Cable Strain Relief - 10 Piece Minimum Order
IN9334	3/32" Allen Wrench for Connector Module Set Screws - 10 Piece Minimum Order