

# Broadcast and Entertainment Products

Modular Systems and Cable Management

2nd Edition



Tyco Electronics and ADC are now **TE Connectivity**



# Table of Contents

## UniPatch® Modular System

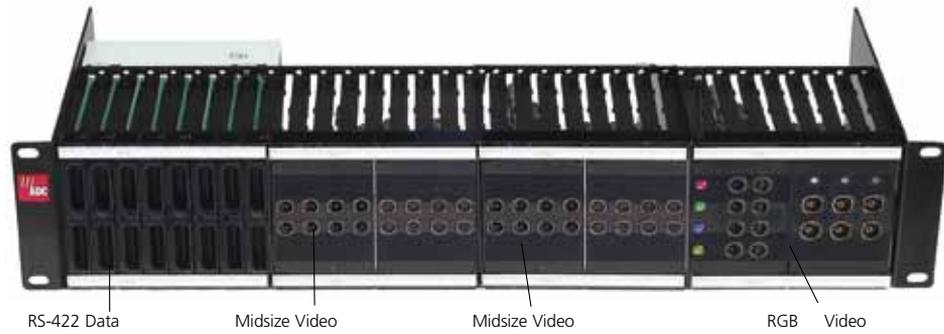
- UniPatch® Modular System Overview ..... 4.1
- UniPatch® Backplane Options..... 4.2
- UniPatch® Module Options
  - GigE ..... 4.3
  - RS-422 ..... 4.4
  - Video ..... 4.5
- Ordering Information ..... 4.6

## Data Connectivity Patching Systems

- UniPatch® GigE Series ..... 4.10
- Ordering Information ..... 4.12
- Categories 5e and 6 Patch Panels and Patch Cords ..... 4.13
- Ordering Information ..... 4.14

## Integrated Cable Organization Network ICON®

- Introduction ..... 4.15
- Wall-Mount Systems
  - Audio Wall Mount System ..... 4.16
  - Audio Super High-Density System ..... 4.18
  - Audio Termination Blocks ..... 4.19
  - Video Wall Mount System ..... 4.20
  - Ordering Information ..... 4.21
- Rack-Mount Systems
  - Audio System ..... 4.23
  - Video System ..... 4.25
  - Ordering Information ..... 4.27



**Loaded UniPatch Chassis**

The UniPatch modular patching system with universal chassis allows you to combine data, audio, and video patching modules in a single two-rack-unit modular panel. Order a mix of jack and backplane modules to create a totally custom patching system, or order a preconfigured panel

RS-422 data jacks. You can start with only a few modules and add or change modules as needed. The universal chassis with mix-and-match jack and backplane modules provides the ultimate in flexibility.

### Modular Chassis for Unprecedented Flexibility

### Mix-and-Match Plug-in Jack Modules

The following modules (details on following pages) may be assembled on site in mix and match combinations. Data and bantam modules may be ordered in a fully loaded preconfigured chassis.

#### Features

- Jacks and backplanes have a modular design and fit into the rugged high-density card cage chassis. Just plug in a module to add more jacks or backplane connectors
- Modularity lets you start small and add modules and cards as needed
- Individual circuits are easily replaced without disturbing other circuits
- Backplanes available in high-density 64-circuit bantam audio, high-density 32-port data, standard-density 24-port data, and video options
- Gold-plated card edge connectors tested to withstand heavy use and vibration
- Shallow 7" deep chassis is perfect for mobile applications

#### Features

- Category 3 compliant RS-422 modules for demanding professional data patching applications
- Video modules for analog, SD, HD, and analog component
- AES 110 Ω to 75 Ω coaxial baluns
- BNC bulkhead feedthroughs
- Category 5, 5e and 6 data patching

# Modular Systems and Cable Management

## UniPatch® Modular System – Backplane Options (mix-and-match)

Different backplane connector types are available, and because they come in modular units, they can be mixed and matched like the jack modules. Each backplane supports up to eight jack modules.

### Features

- Available modules:
  - Dsub9 connectors
  - QCP MKII for data 20x8



**Dsub9, RS-422**  
Rear Module  
(for data)  
(VPRM-D9-W)



**QCP MKII**  
Rear Module  
(for data)  
(VPRM-MKII-W)

### Gigabit Ethernet Jack Module

#### Features

- Dense pack patching
- Minimum of 30,000 patch cycles
- Normal-through patch by exception
- Modular design (can be removed without disturbing adjacent circuits)
- Gold-plated contacts on switches and card edge connectors
- Keyed opening for proper patch cord orientation



DM-GIGE

### LSA-PLUS 8-Circuit Backplane Module

#### Features

- Patented LSA-PLUS® termination system modules can be removed individually for easier wiring
- Number designation labels included
- Designation strip and window included for custom labeling
- Designed for solid or stranded wire
- Eliminates the need for additional connectors and connector labor



VPRM-GIGE-LSA  
(rear view)

Note: For complete configuration and ordering information, please refer to Data Section.

The UniPatch® Category 3 compliant RS-422 module raises the standard in machine control patching with its quality and robust design. Now you can patch machine control data properly using reliable, durable, military-grade jacks rated for 30,000 insertion/withdrawal cycles. Each circuit switches all ten pins, making the module fully SMPTE 207M compliant. Compared to other systems employing light-duty RJ45 connectors rated at fewer than 500 insertion/withdrawal cycles or bantam jacks that do not switch all signal lines, the UniPatch RS-422 module is a significant advance in machine control patching.



### Features

- The standard in professional data patching
- Durable military-grade switch system rated for 30,000 insertion/withdrawal cycles. Unlike RJ45 systems, suitable for heavy daily professional use.
- Fully SMPTE 207M compliant circuits switch all ten pins, unlike bantam systems, which do not switch all ground pins, potentially causing problems
- Tough military-grade, gold-plated switch with long cantilever beam springs and unique self-wiping contacts ensures against premature wear and provides positive contact force
- RS-422 cards offer the highest density available. Up to 32 modules in two rack units for 33 percent greater density
- Normalled or non-normalled cards available
- Modular termination options: Dsub9, DB-25, EDAC 90-pin plug, QCP II, Ultra Patch, standard-density, 24 per frame, or Dsub9 high-density, 32 per frame (requires thin shell strain relief)
- Keyed for proper patch cord orientation
- Category 3 compliant for 10 Base-T data

# Modular Systems and Cable Management

## UniPatch® Modular System – Video Modules

TE offers a full line of UniPatch video patching modules, making it easy to assemble a custom video patch panel for any application. Modules are available for analog, SD, HD, or component video. Included in the selection of jacks are the standard size SVJ, midsize MVJ, and MUSA SMJ-series HD jacks for outstanding performance at high-definition data rates and beyond.

### Features

- Standard jacks mount 24 across, midsize jacks mount 32 across
- Standard-size, HD video modules contain SVJ-2 normalled-through Super Video Jacks with or without termination
- Standard size straight-through modules contain CJ2014N jacks without termination or CJ2020N-75 jacks with termination
- Midsize HD video modules contain MVJ-3 normalled-through Super Video Jacks with or without termination
- Midsize straight-through modules contain CJ3014/4014 jacks without termination or CJ3014N-75/4014N-75 jacks with termination
- MUSA modules contain SMJ-2100 HD-rated MUSA standard jacks.
- Modules are available for analog component video in the following configurations: RGB, P<sub>r</sub>P<sub>b</sub>Y, RGBS, and RGBHV
- Large designations snap on without tools providing enough space for four rows of text



**Standard Size Video Module**  
also available with CJ2020N75 terminated single jacks (VM-2014-BK)



**Standard Size HD Video Module**  
(VM-SVJ-BK)



**RGBHV Video Module**  
(VM-RGBHV-MVJ-BK)



**RGB, P<sub>r</sub>P<sub>b</sub>Y HD Video Module**  
(VM-RGB-MVJ-BK)



**Midsize HD Video Module**  
(VM-MVJ-BK)

All modules provided with colored inserts to allow the user to customize for any use.

### Ordering Information

Description	Catalog Number
<b>Empty Chassis</b>	
Empty UniPatch® chassis, black, supplied with VP-DES-343-32 kit	VP2232-BK
Empty UniPatch chassis, gray, supplied with VP-DES-343-32 kit	VP2232-G
<b>RS-422 Data Fully Loaded Chassis - normalised**</b>	
24-circuit Dsub9 normalised, gray, no backshell kits	VP2224-D9-G
24-circuit Dsub9 normalised, black, no backshell kits	VP2224-D9-BK
32-circuit Dsub9 normalised, gray, no backshell kits	VP2232-D9-G
32-circuit Dsub9 normalised, black, no backshell kits	VP2232-D9-BK
32-circuit Dsub9 normalised, black, with backshell kits	VP2232-D9-BK-S
32-circuit Dsub9 normalised, gray, with backshell kits	VP2232-D9-G-S
<b>RS-422 Data Fully Loaded Systems - non-normalised**</b>	
24-circuit Dsub9 non-normalised, black, no backshell kits	VP2224-NND9-BK
32-circuit Dsub9 non-normalised, black, no backshell kits	VP2232-NND9-BK
32-circuit Dsub9 non-normalised, gray, no backshell kits	VP2232-NND9-G

\* Normal configurations on bantam audio cards to be set by user.  
32-circuit Dsub9 systems require the use of a thin backshell kit.

\*\*The thin backshell Dsub9 provides strain relief for standard Dsub9 connectors. This shell kit is highly recommended on 32-circuit UniPatch RS-422 systems and is included where indicated.



**Dsub9 Thin Backshell Kit**  
(Does not include Dsub9 connector, included with -S only.)

### Ordering Information

Description	Catalog Number
<b>Traditional RS-422 Patch Panels</b>	
RS-422 2x12 non-normalised RJ45, black	PEM-9NCDA1-BK-NN
RS-422 2x24 dual bantam to Dsub9 normalised	PPB3-5R422D9NS
RS-422 2x12 dual bantam to Dsub9 normalised	PPB3-5R422D9NS-12

### Ordering Information

Description	Required Chassis Space	Catalog Number
<b>Data Modules</b>		
2-port GigE normalling jack module: PCB with green masking	1 space	DM-GIGE
2-port GigE non-normalling jack module: PCB with black masking	1 space	DM-GIGE-NN
RS-422 data, 10-pin, normals through, black	1 space	DM-422-BK
RS-422 data, 10-pin, normals through, gray	1 space	DM-422-G
RS-422 data, 10-pin, non-normalled, black	1 space	DM-422-NN-BK
RS-422 data, 10-pin, non-normalled, gray	1 space	DM-422-NN-G
Ethernet data, Cat 5 RJ-RJ non normalled coupler, black	1 space	DM-RJC5-BK
Ethernet data, blank adapter, black	1 space	DM-6S-BK
<b>Universal Blank Modules</b>		
Blank module, black	4 spaces	DM-BLANK-BK
Blank module, gray	4 spaces	DM-BLANK-G
<b>Video Modules<sup>†</sup></b>		
Standard, Super Video Jack SVJ-2, 3-circuit, black	4 spaces	VM-SVJ-BK
Standard, Super Video Jack SVJ-2T, terminated, 3-circuit, black	4 spaces	VM-SVJT-BK
Midsized, Super Video Jack MVJ-3, 4-circuit, black	4 spaces	VM-MVJ-BK
Midsized, Super Video Jack MVJ-3T, 4-circuit, terminated, black	4 spaces	VM-MVJT-BK
Midsized, Super Video Jack MVJ-3, 4-circuit, gray	4 spaces	VM-MVJ-G
Midsized, Super Video Jack MVJ-3T, 4-circuit, terminated, gray	4 spaces	VM-MVJT-G
Midsized, MVJ-3, RGB+HV, black	4 spaces	VM-RGBHV-MVJ-BK
Midsized, MVJ-3T, RGB+HV, terminated, black	4 spaces	VM-RGBHV-MVJT-BK
Midsized, MVJ-3, RGB, P <sub>P</sub> Y HD module, black	4 spaces	VM-RGB-MVJ-BK
Midsized, MVJ-3T, RGB, P <sub>P</sub> Y HD module, terminated, black	4 spaces	VM-RGB-MVJT-BK
Midsized, CJ3014/4014N, 4-circuit, black	4 spaces	VM-CJMID2-BK
Midsized, CJ3014/4014N-75, 4-circuit, terminated, black	4 spaces	VM-CJMIDT2-BK
Midsized, CJ3014/4014N-75, 4-circuit, terminated, gray	4 spaces	VM-CJMIDT2-G

Ordering information continues on next page.

<sup>†</sup>Video circuits are supplied with designations and circuit indications.



# Modular Systems and Cable Management

## UniPatch® Modular System

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### Ordering Information

Description	Catalog Number
<b>Rear Modules for Audio and Data Applications</b>	
Gigabit Ethernet LSA-PLUS 8-circuit backplane module	VPRM-GIGE-LSA
Universal DB-9, 8-circuit, RS-422, white, for data applications	VPRM-D9-W
Universal QCP II, 8x10 circuit, white, for data applications	VPRM-MKII-W

### Ordering Information

Description	Catalog Number
<b>Accessories</b>	
Dsub9 thin backshell connector kit, 1 count	DB9-TSHELL1-KIT
Dsub9 thin backshell connector kit, 16 count	DB9-TSHELL16-KIT
Dsub9 thin backshell connector kit, 64 count	DB9-TSHELL64-KIT
Patch cord kit with two RS-422 ends, 10-pin black, no cable	PC-422-KIT
Rear cable management kit (mounts in rear rack rails), black	PPI-EXT-BAR-BK
Rear cable management kit (mounts in rear rack rails), gray	PPI-EXT-BAR-G
<b>Replacement Designation Strip Kits*</b>	
Kit of 2 pieces, 17" x .640" full-length designation strips (includes window and mounting screws)	VP-DES-680-32
Kit of 16 windows, 2.01" x .343" designation windows for video modules	VP-DES-VIDEO
Kit of 4 pieces, 4.174" x .289" designation strips for video or data modules (includes windows and mounting screws)	VP-DES-343-4
Kit of 2 pieces, 17" x .289" designation strips for loaded data chassis (includes windows and mounting screws.)	VP-DES-343-32

\* See UniPatch Installation Guide ADCP-75-009 for additional information on selecting the correct designation kit for your UniPatch system. Designations are supplied with chassis and system configurations; kits are for replacement only

### Ordering Information

Description	Catalog Number
<b>Gigabit Ethernet and RS422 Cat 6 Patch Cords</b>	
0.6 m (2')	PC-GIGE-2
0.9 m (3')	PC-GIGE-3
1.2 m (4')	PC-GIGE-4
1.8 m (6')	PC-GIGE-6
<b>UniPatch Data Patch Cords</b>	
UniPatch RS-422 10-pin gray 2'	PC-422-2GY
UniPatch RS-422 10-pin gray 3'	PC-422-3GY
UniPatch RS-422 10-pin gray 4'	PC-422-4GY
UniPatch RS-422 10-pin gray 6'	PC-422-6GY
UniPatch RS-422 10-pin to RJ45, gray 2'	PC-422-RJ45-2GY
UniPatch RS-422 10-pin to RJ45, gray 3'	PC-422-RJ45-3GY
UniPatch RS-422 10-pin to RJ45, gray 4'	PC-422-RJ45-4GY
UniPatch RS-422 10-pin to RJ45, gray 6'	PC-422-RJ45-6GY
<b>Traditional Data Patch Cords</b>	
RJ45-RJ45 1', blue	TP5ETA-BL01
RJ45-RJ45 2', blue	TP5ETA-BL02
RJ45-RJ45 3', blue	TP5ETA-BL03
RJ45-RJ45 4', blue	TP5ETA-BL04



UniPatch Data Patch Cord





# Modular Systems and Cable Management

## Data Connectivity Patching Systems – UniPatch® GigE Series

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### Gigabit Ethernet Patch Panel

TE has designed a professional broadcast-quality Gigabit (1000 baseT) patching system for demanding professional environments where frequent patching and higher density is required. The system features a high-density 32-port normal-through card frame system to ADC Direct-Edge LSA-PLUS® termination system. Now you can patch Ethernet data properly using reliable durable military-grade jacks rated for 30,000 insertion/withdrawal cycles. The Category 6 rated patch cords are keyed to ensure proper patching.

Compared to other systems employing light duty RJ45 connectors rated at fewer than 500 insertion/withdrawal cycles or bantam jacks that do not switch all signal lines, the UniPatch® GigE module is a significant advance in Ethernet and machine control patching.

The GigE system is a dense pack digital control interface patching system that provides test access, patch, cross-connect and monitor functions in 100 Ω balanced transmission systems. It has a common signal format, bit rate, and operation up to Gigabit Ethernet (1,000 Mbps). The UniPatch GigE system is the choice for carrier-class Ethernet patching where reliability is critical.

\* For more information on Gigabit Ethernet Jack Modules and LSA-Plus see 8 Circuit Backplane Module on page 4.3



VP2232-GIGE

#### Features

- Category 5e channel compliant
- High-density modular design, 32 circuits per panel
- Available with normal-through (patch by exception) or straight-through modules
- Modular LSA-PLUS® punch down backplane
- Keyed and highly reliable military-grade patch cords, rated to 30,000 cycles
- Available with an easily removable wire management bar
- Cable agnostic (works with any Cat 5e/Cat 6 cable)



# Modular Systems and Cable Management

Data Connectivity Patching Systems – UniPatch® GigE Series

## Specifications

### ELECTRICAL

<b>Characteristic impedance:</b>	100 $\Omega$ typical
<b>Voltage rating:</b>	500 Volts AC @ 60 Hz with a trip current of 1 mA for 1 minute
<b>NEXT:</b>	Category 5e channel compliant
<b>FEXT:</b>	Category 5e channel compliant
<b>Contact resistance:</b>	.02 $\Omega$ max change post environmental
<b>Insulation resistance:</b>	5000 M $\Omega$ min initial

### MECHANICAL

<b>Mechanical durability:</b>	30,000 cycles min (front port: dense pack); 50 cycles min (LSA slot)
<b>Insertion force:</b>	7 lbs max
<b>Withdrawal force:</b>	2 lbs min
<b>Patch cord cable bend and twist:</b>	500 cycles min
<b>Dimensions:</b>	2 rack unit

### ENVIRONMENTAL

<b>Thermal shock:</b>	-40° C to 65° C operating; -55°C to 85°C non-operating
<b>Moisture resistance:</b>	0% to 95%; MIL-STD-202 Method 106
<b>Corrosion (salt spray):</b>	MIL-STD-202 Method 101, test condition B
<b>Flammability:</b>	UL 94-VO rated
<b>Vibration:</b>	MIL-STD-202 Method 201
<b>Solvent resistance:</b>	MIL-STD-202 Method 215

### FINISH

<b>Sheetmetal panel:</b>	.075 CRS with protective black finish
<b>Plastic housings:</b>	ABS/PC, deep blue color
<b>Contact springs:</b>	50 microinch gold plating MIL-G-45204 Type 1
<b>PC board:</b>	FR-4 with gold-plated contacts
<b>Card edge connector:</b>	LSA-PLUS®: 17-position termination block

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### Ordering Information

Description	Catalog Number
<b>Gigabit Ethernet Panel</b>	
32-port GigE normalling patch panel	VP2232-GIGE
32-port GigE non-normalling patch panel	VP2232-GIGE-NN
<b>Gigabit Ethernet Jack Module</b>	
2-port GigE normalling jack module: PCB with green masking	DM-GIGE
2-port GigE non-normalling jack module: PCB with black masking	DM-GIGE-NN
<b>Gigabit Ethernet LSA-PLUS Backplane Module</b>	
Gigabit Ethernet LSA-PLUS 8-circuit backplane module	VPRM-GIGE-LSA
<b>Gigabit Ethernet and RS422 Cat 6 Patch Cords</b>	
0.6 m (2 ft)	PC-GIGE-2
0.9 m (3 ft)	PC-GIGE-3
1.2 m (4 ft)	PC-GIGE-4
1.8 m (6 ft)	PC-GIGE-6
<b>Chassis</b>	
Empty UniPatch chassis; color: black	VP2232-BK
Empty UniPatch chassis; color: gray	VP2232-G
<b>Accessories</b>	
LSA insertion tool and handheld LSA block holder	DM-GIGE-TOOL-KIT
Handheld/rack mountable LSA block holder	DM-GIGE-TOOL
Cable bar	ADCCMR-A



ADCCMR-A



DM-GIGE-TOOL-KIT



PC-GIGE-X

# Modular Systems and Cable Management

## Data Connectivity Patching Systems – Category 5e and 6 Patch Panels

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Category 5e and Category 6 solutions are a fully integrated family of precisely tuned components each designed to operate at optimum performance with the other. These solutions are unmatched in data throughput and are supported by the most comprehensive and thorough warranty in the industry: the TrueNet® Zero Bit-Error warranty. The warranty guarantees that the structured cabling system will remain

error free for a full 5 years and includes a 20-year electrical performance and free of defect warranty. The result is a remarkable advanced and high performing end-to-end channel guaranteed beyond the typical industry requirements to maximize network throughput and minimize downtime. Numerous component options are available for versatility and flexible adaptation to meet any infrastructure requirement.

### Features

#### Coupler Panels

- Provides feed-through data and voice connectivity on the front and rear
- Extra heavy-duty frames
- .480" designation strips

#### RJ to IDC Panels

- 1 RU 24-port design provides high-density and flexibility. Available in 2 RU 48-port
- Wire can be terminated with either a LSA-PLUS or 110 tool
- Rear wire manager included
- Designed to support gigabit Ethernet transmission speeds

#### RJ to IDC Dynamic Right/Left Angle Panels

- Patented right/left angle eases stress on patch cords allowing for easy cable management
- 45-degree silver-plated IDCs provide secure reliable gas-tight connections
- Wire can be terminated with either a LSA-PLUS or 110 tool
- Universal A/B wiring label

#### Shielded Coupler Panels

- High-density 24 ports in 1 rack space
- Standard RJ patch panel interface
- Screened twisted pair connector interfaces and metal shielded panel design
- Gigabit Ethernet (1000 Base-T), T1/E1

#### Patch Cords

- Impedance matched patch cord for maximum throughput
- Patented AirES® technology
- Up to 28% smaller outer diameter than other patch cords
- UL 1863 listed and Category 5e and Category 6 performance verified





# Modular Systems and Cable Management

## Data Connectivity Patching Systems – Category 5e and 6 Patch Panels

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<b>Ordering Information</b>		
Description	Catalog Number	Catalog Number
<b>Coupler Panels</b>		
	<b>Category 5e</b>	<b>Category 6</b>
1 RU 24-port patch panel; with designation strips	ADCPP24505-DES	ADCPP24606-DES
<b>RJ to IDC Panels</b>		
1 RU 24-port patch panel; silkscreen	6653 1 585-24	6653 1 677-24
2 RU 48-port patch panel; silkscreen	6653 1 585-48	6653 1 677-48
1 RU 24-port patch panel; fascia	6653 1 587-24	6653 1 679-24
2 RU 48-port patch panel; fascia	6653 1 587-48	6653 1 679-48
<b>RJ to IDC Dynamic Right/Left Angle Panels</b>		
1 RU 24-port right/left angle patch panel	PP24AC5ET	PP24AC6T
2 RU 48-port right/left angle patch panel	PP48AC5ET	PP48AC6T
<b>Shielded Coupler Panels</b>		
24-port ScTP (Screened Twisted Pair) RJ to RJ	ADCPP24RJ5E-S	ADCPP24RJ6-S
<b>Patch Cords</b>		
RJ45-RJ45 plug UTP T568B PVC patch cord	TP5ETA-XXYY	6645-2-78X-YY
RJ45-RJ45 plug UTP T568A PVC patch cord	TP5ETA0XXYY	6645-2-77X-YY
RJ45-RJ45 plug UTP crossover PVC patch cord	TP5ETACXXYY	6645-2-79X-YY

X = Color: 0 = White, 1 = Blue, 2 = Red, 3 = Yellow, 4 = Green, 7 = Gray  
 YY = Length: 04 = 4 ft, 07 = 7 ft, 10 = 10 ft, 15 = 15 ft, 25 = 25ft, 50 = 50ft  
 Contact ADC for custom lengths and colors.

### Audio/Video/Data

The ICON I-W Wall-Mount System offers modularity in a convenient wall-mounted system. Subpanels are available for twisted pair, BNC, F, DB9 and Ethernet bulkhead panels. Subpanels purchased individually. The I-W frame holds up to 4 subpanels and has integrated cable rings for cable management.



**24-position, BNC, Bulkhead Panel**  
(IW-VI-24-MNT)



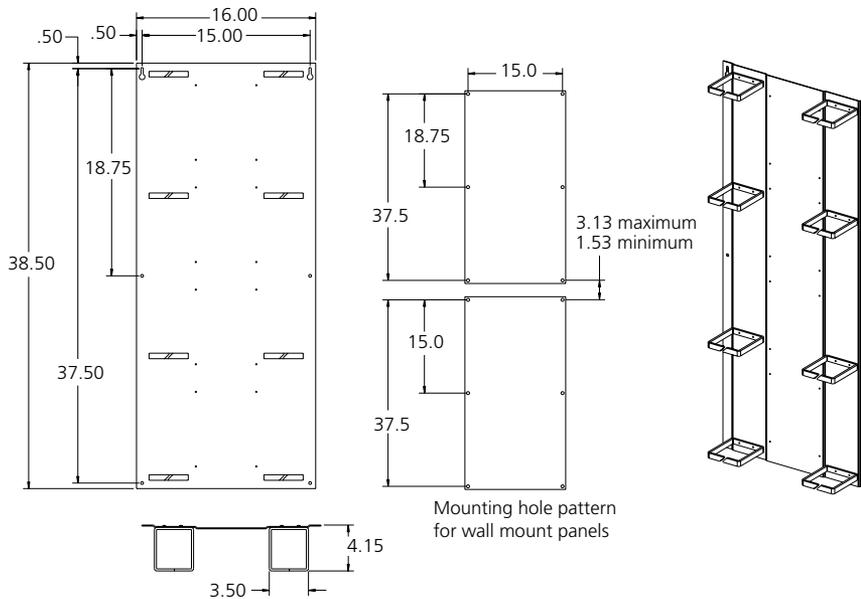
**24-position, DB9, Turnaround Panel**  
(IW-24-D9)



**Frame (I-W-MKIV-PNL)**  
with **24-position E3** (IW-24-AMP-E3)  
and **24-position E3-AMP** (IW-24-AMP-E3)



**24-position, RJ45 OATSE/CAT6 Ethernet Bulkhead Panel**  
(IW-5E-24)



# Modular Systems and Cable Management

## ICON® – Video Wall-Mount System

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For facilities where rack space is at a premium but wall space is readily available, ADC offers the VIW Video ICON wall-mount video bulkhead panel series. These tough powder-coated steel panels mount on the wall and provide from eight to 96 video bulkhead connectors for managing cables between racks or between studios. Top-quality 3 GHz bulkhead connectors ensure the best video performance from analog to HDTV transmission rates.

- VIW-8 (1x8) and VIW-408 (4x8) for small applications
- VIW-424 (4x24), VIW-64 (2x32), and VIW-72 for intermediate size applications. The VIW-64 is ideal for managing cables for a 64-input router matrix
- VIW-96 (3x32) for larger uses, such as organizing inputs and outputs for a large router matrix
- Cable support bars or rings included on most models



**8-Connector Bulkhead  
Wall-Mount Panel**  
(VIW-8)



**24-Connector Bulkhead  
Wall-Mount Panel**  
(VIW-24)



**64-Connector Bulkhead  
Wall-Mount Panel**  
(VIW-64)



# Modular Systems and Cable Management

## ICON® – Ordering Information

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### Ordering Information

Description	Dimensions	Catalog Number
<b>Audio/Video/Data Modular Wall-Mount System</b> (may be mounted individually or attached to an I-W frame)		
Wall-mount empty frame with cable management. Allows up to 4-IW blocks		I-W-MKIV-PNL
Wall-mount block, 24 position, E3-AMP		IW-24-AMP-E3
Wall-mount block, 24 position, DB-9		IW-24-D9
Wall-mount block, 24 position, E3		IW-24-E3
Wall-mount block, 24 position, RJ		IW-5E-24
Wall-mount block, 24 position, BNC		IW-VI-24-MNT

### Ordering Information

Description	Number of Circuits	Catalog Number
<b>Video Wall-Mount Systems</b>		
1x8 wall mount bulkhead panel, fits on I-W Frame	8	VIW-8
3x8 wall mount bulkhead panel, fits on I-W Frame	24	VIW-24
24-circuit bulkhead panel	24	VIW-408
64-circuit bulkhead panel	64	VIW-64
72-circuit bulkhead panel	72	VIW-72
96-circuit bulkhead panel	96	VIW-424
96-circuit bulkhead panel	96	VIW-96

# Modular Systems and Cable Management

## ICON® – Audio Rack-Mount Systems

The ICON I-96 high-density rack-mount audio cable management system installs in a standard 19-inch (48 cm) EIA equipment rack and is engineered for easy access to front and rear connections. The rack-mounted QCP II or QCP IV punchdown panels are quick to connect,

and the feedthrough design allows changing of cross-connection jumpers on the front without disturbing connections on the rear. Multiple I-96 panels can be installed for up to 768 circuits in a fully loaded 7-foot rack.

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**1 RU Dsub9 Feedthrough Rack-Mount Control Panel Breakout Panel**  
(I-116-D9F)



**2 RU QCP IV/DB-25 Rack-Mount Panel**  
(I-DB25)



**2 RU QCP II/EDAC 90-Pin Plug Rack-Mount Panel**  
(I-96-E)



**2 RU AMP 50-Pin Receptacle Panel (Rear View)**  
(I-96-AMP)

### Durable Rack-Mounted Video Bulkhead Panels

The ICON VI series is a complete line of 19-inch (48 cm) rack-mounted bulkhead video cable management panels starting from the small 12-circuit VI-12 panel to the full-sized VI-48 with 48 bulkhead coax circuits. Each panel is made of the same strong powder-coated steel and uses high-quality 3 GHz coax bulkhead connectors suitable for HDTV.

- VI-12 and VI-16 2 RU panels handle 12 or 16 circuits for small applications, such as organizing monitor outputs or the inputs and outputs of a small router
- VI-24 and VI-32 2 RU panels provide 24 and 32 circuits for moderately-sized applications, such as feeding cables to a 32-input router
- The VI-132 (2x32) 1 RU panel provides the largest number of inputs and outputs in the smallest space
- VI-48 2 RU panel handles 48 circuits for larger applications
- Colors available include white, putty white, and black
- Some models include designation strip holders for circuit identification
- Insulated and non-insulated available
- 23" panels are also available



**Exclusive ADC  
Closed-entry Center Pin  
Resists Damage**



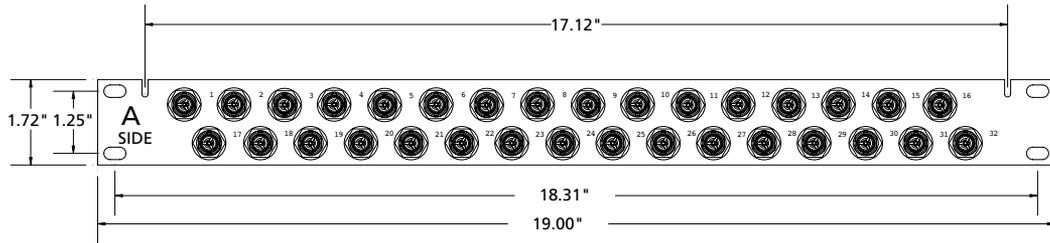
**Conventional Center Pins  
Prone to Damage**



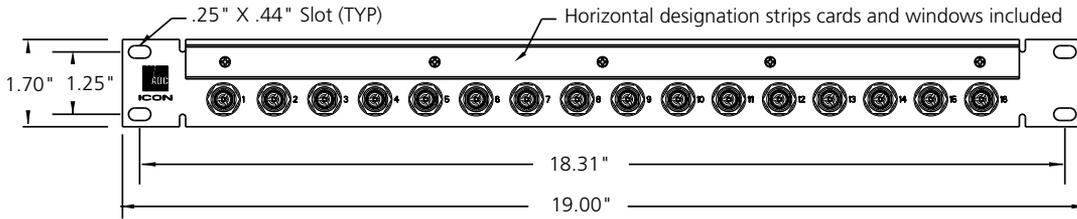
**75 Ω 12-circuit BNC Panel  
(VI-12-PTY)**



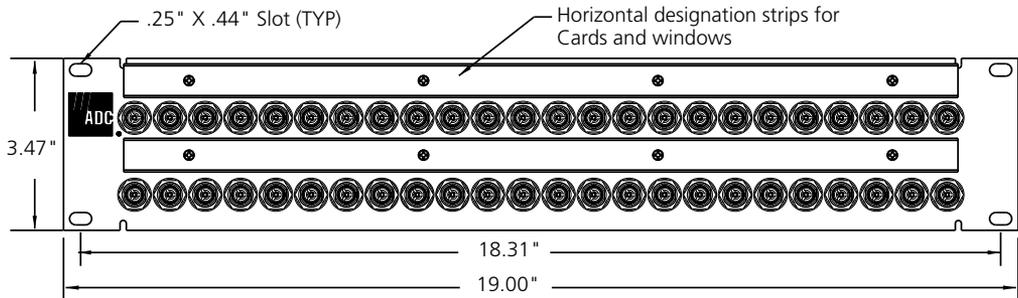
**75 Ω 48-circuit BNC Panel  
(BNC-BLK-48)**



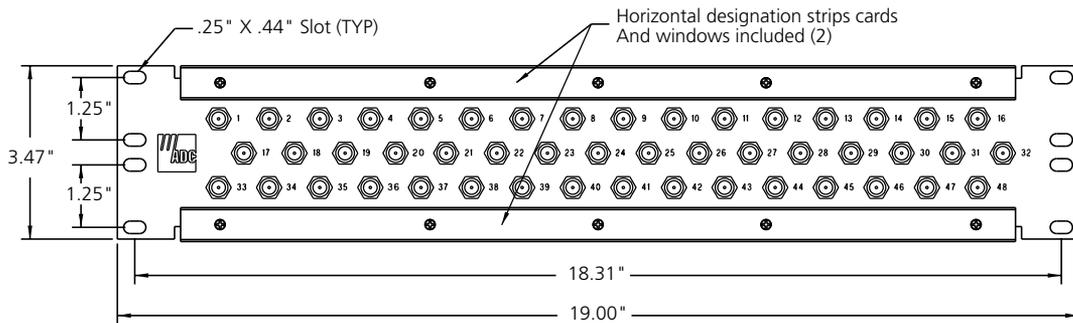
**32-Circuit 1 RU BNC Bulkhead Panel**  
(VI-132-SS-BK)



**16-Circuit 1 RU BNC Bulkhead Panel**  
(VI-116-DES-W)



**48-Circuit 2 RU BNC Bulkhead Panel**  
(VI-48-19-TTDES-BK)



**48-Circuit 2 RU F81 Connector Bulkhead Panel**  
(VI-48F-19-PTY)



# Modular Systems and Cable Management

## ICON® – Ordering Information

7/12 • 108947AE Broadcast and Entertainment Products

### Ordering Information

Description	Number of Circuits	Catalog Number
<b>Video Rack-Mount Systems</b>		
<b>19" Rack Mount BNC Bulkhead Panels, 75 Ω</b>		
2 RU 2x6, putty	12	VI-12-PTY
2 RU 2x6, white	12	VI-12-W
1 RU 1x16 with designation strips, white	16	VI-116-DES-W
2 RU 2x8 with designation strips, putty	16	VI-16-PTY
2 RU 2x10 with designation strips, putty	20	VI-20-PTY
2 RU 2x12, putty	24	VI-24-PTY
2 RU 2x12 with vertical and horizontal rings, black	24	VI-24VHR-BK
1 RU 2x16, black	32	VI-132-SS-BK
2 RU 2x16 with designation strips, black	32	VI-32-BK
2 RU 2x16 with designation strips, putty	32	VI-32-PTY
2 RU 2x16 with upper and lower designation strips, white	32	VI-32-W
2 RU 2x16 with lower and middle designation strips, white	32	VI-32-DES-W
2 RU 3x16 with designation strips, black	48	VI-48-BK
2 RU 3x16 with designation strips, putty	48	VI-48-PTY
2 RU 3x16 with designation strips, white	48	VI-48-W
2 RU 2x24 with designation strips, black	48	VI-48-TTDES-BK
2 RU 2x24 with designation strips, gray	48	VI-48-TTDES-G
1 RU 2x16 empty BNC panel for ADC bulkhead BNCs	32	VI-132-PNL-BK
<b>F Connector Rack Mount Bulkhead Panels, 75 Ω</b>		
2 RU 1x6 BNC, 1x6 F connector with tray, white	12	VI-12-BNC-F-W
1 RU 19" 1x16 F connector panel with designation strip, putty	16	VI-16F-19-PTY
2 RU 19" 3x16 F connector panel with designation strip, putty	48	VI-48F-19-PTY
2 RU 23" 2x24 F connector panel with designation strip, putty	48	VI-48F-23-PTY

BROADCAST AND ENTERTAINMENT PRODUCTS

Tyco Electronics and ADC are now **TE Connectivity**



**Website: [www.te.com](http://www.te.com)**

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Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our website.

TE Connectivity, P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101

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