

## UHD 4K/8K Micro Series AVP 16GHz-12Gb/s Video Patchbays

High bandwidth performance for SD-SDI, HD-SDI, UHD-SDI, HDR, & 4K/8K video applications

Create a combination 16G/3G Micro video patchbay integrating AVP's HD Micro 3G Video Jacks

Details on next page . . .

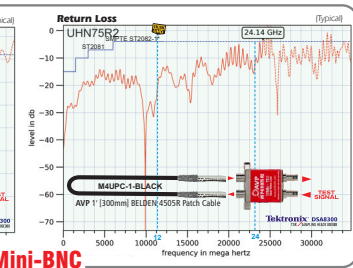
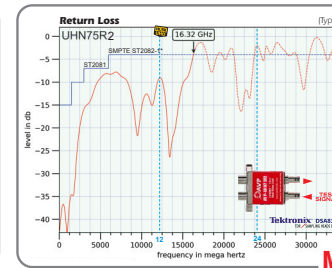
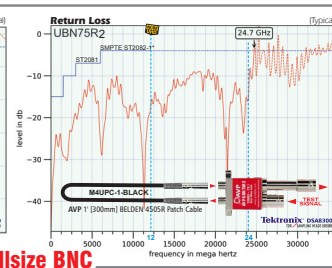
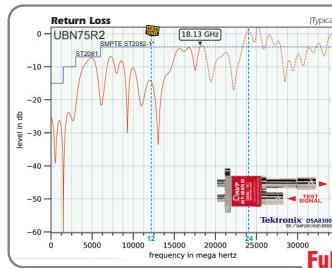
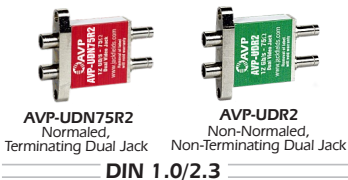
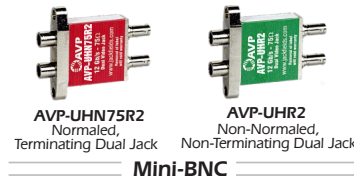
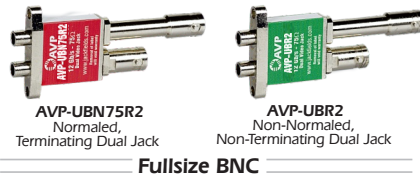


### Featuring:

- 16GHz, high bandwidth performance for SD-SDI, HD-SDI, UHD-SDI, HDR, & 4K/8K video applications
- Compliant with SMPTE 292M, 424M, ST2081-1 & ST2082-1\*
- Return Loss of 7dB or greater at 12.0GHz
- Isolation: 45dB or greater at 6.0GHz
- Available in 1, 1.5 & 2 rack units
- AVP color-coded, numbered and patented designation to maximize viewable area
- Lifetime Warranty

- Available with:
  - Fullsize BNC rear termination, 2x24 & 2x32
  - Mini-BNC rear termination, 2x24, 2x32 & 2x48
  - DIN 1.0/2.3 rear termination, 2x24, 2x32 & 2x48

Shown with optional B31 Cable Bar



Model Number  
A V - U 2 E - -

Number of Jacks Across	
24	24 Dual Jacks, BNC rear termination
32	32 Dual Jacks, BNC rear termination
24	24 Dual Jacks, Mini-BNC rear termination
32	32 Dual Jacks, Mini-BNC rear termination
48	48 Dual Jacks, Mini-BNC rear termination
24	24 Dual Jacks, DIN 1.0/2.3 rear termination
32	32 Dual Jacks, DIN 1.0/2.3 rear termination
48	48 Dual Jacks, DIN 1.0/2.3 rear termination

Panel Height	
1	1 Rack Unit 1.75", 44mm
15	1.5 Rack Unit 2.62", 66mm
2	2 Rack Unit 3.50", 89mm

Cable Bar Option	
BZ	No Cable Bar
B31	1RU only, 6.0" [150mm] Cable Bar
B10	1.5RU and 2RU only, 7.0" [178mm] Cable Bar

Installed Jack Type	
UBN75R2	12Gb/s 75ohm Normalized, Terminating dual jack, BNC rear termination
UBR2	12Gb/s 75ohm Non-Normalized, Non-Terminating dual jack, BNC rear termination
UHN75R2	12Gb/s 75ohm Normalized, Terminating dual jack, Mini-BNC rear termination
UHR2	12Gb/s 75ohm Non-Normalized, Non-Terminating dual jack, Mini-BNC rear termination
UDN75R2	12Gb/s 75ohm Normalized, Terminating dual jack, DIN 1.0/2.3 rear termination
UDR2	12Gb/s 75ohm Non-Normalized, Non-Terminating dual jack, DIN 1.0/2.3 rear termination
Z	None (empty panel)

### Ordering Information

Model Number  
M4U PC - -

**Patchcards**

Patchcard Type	Color
M4U UHD Micro 4K/8K Patchcard	BLACK
E8K Super 8K + E-Series Patchcard	RED
W8K Super 8K + W-Series Patchcard	GREEN
	BLUE
	PURPLE
	ORANGE

example... M4UPC-3-RED

Patchcard Length
1 1' [300mm]
1.5 1.5' [450mm]
2 2' [600mm]
3 3' [900mm]
4 4' [1.20m]
6 6' [1.80m]
10 10' [3.05m]

Connectors meet or exceed 12G and utilize BELDEN 12GHz 4K/8K UHD Precision Video Cable

Model Number  
CISK - -

**CISK Color-Code Circuit Indicators**

Number of Color-Code Indicators	Indicator Color
30 Package of 30	BLACK
60 Package of 60	BROWN
100 Package of 100	RED
	ORANGE
	YELLOW
	GREEN
	BLUE
	PURPLE
	GRAY
	WHITE
	MULTI

Of each color

\*Meets and exceeds SMPTE ST2082-1:2015 (Society of Motion Picture And Television Engineers® 12 Gb/s Signal/Data Serial Interface - Electrical)



Partners in Broadcast, Telecom & Satellite Solutions

# UHD Micro 12G Series

16GHz, 12Gb/s Signal/Data Serial Interface

## UHD 4K/8K Micro Series

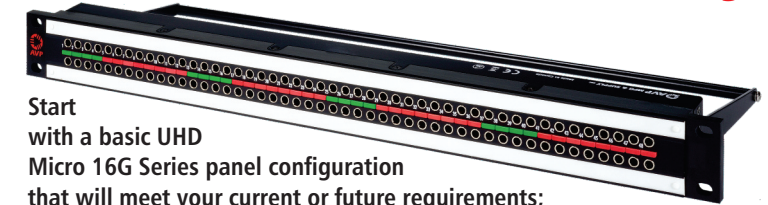
**Specifications** UHD Micro 16G Video Jack | UHD Micro 16G Video Jack | UHD Micro 16G Video Jack  
 • Fullsize BNC termination | • Mini-BNC termination | • DIN 1.0/2.3 termination

Material	Mechanical	Environmental
Housing: Copper Alloy, Nickel Plated Center Contacts: Copper Alloy, Gold Plated Springs: Copper Alloy, Gold Plated Insulators: Teflon and Thermoplastic	Vibration: Per Mil-Std. 202, Method 201 Insertion Force: 9 lbs Max. Withdrawal Force: 2 lbs Min. Life Cycle: 20,000 Typical	Temperature: -40 C To 65 C Operating: -40 C To 65 C Storage: -40 C To 65 C Thermal Shock: Per Mil-Std. - 202, Method 107 Moisture & Humidity: Per Mil-Std. - 202, Method 106 Salt Spray: Per Mil-Std. - 202, Method 101 RoHS: Compliant
	<b>Electrical</b> Meets SMPTE 2082-1 Characteristic Impedance: 75 Ohms Contact Resistance: < 50 Milliohms	

### Popular Models

Model	Description
<b>Complete Jackfields - 16GHz - 12Gb/s normaled terminating, 75ohm, BNC (UBN75R2)</b>	
AV-U224E1-UBN75R2-B31	2x24 Panel, 1RU 24 UBN75R2 normaled terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U224E15-UBN75R2-B10	2x24 Panel, 1.5RU 24 UBN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U224E2-UBN75R2-B10	2x24 Panel, 2RU 24 UBN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E1-UBN75R2-B31	2x32 Panel, 1RU 32 UBN75R2 normaled terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U232E15-UBN75R2-B10	2x32 Panel, 1.5RU 32 UBN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E2-UBN75R2-B10	2x32 Panel, 2RU 32 UBN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
<b>Complete Jackfields - 16GHz - 12Gb/s non-normaled, non-terminating, 75ohm, BNC (UBR2)</b>	
AV-U224E1-UBR2-B31	2x24 Panel, 1RU 24 UBR2 non-normaled non-terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U224E15-UBR2-B10	2x24 Panel, 1.5RU 24 UBR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U224E2-UBR2-B10	2x24 Panel, 2RU 24 UBR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E1-UBR2-B31	2x32 Panel, 1RU 32 UBR2 non-normaled non-terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U232E15-UBR2-B10	2x32 Panel, 1.5RU 32 UBR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E2-UBR2-B10	2x32 Panel, 2RU 32 UBR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
<b>Complete Jackfields - 16GHz - 12Gb/s normaled terminating, 75ohm, Mini-BNC (UHN75R2)</b>	
AV-U224E1-UHN75R2-B31	2x24 Panel, 1RU 24 UHN75R2 normaled terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U224E15-UHN75R2-B10	2x24 Panel, 1.5RU 24 UHN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U224E2-UHN75R2-B10	2x24 Panel, 2RU 24 UHN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E1-UHN75R2-B31	2x32 Panel, 1RU 32 UHN75R2 normaled terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U232E15-UHN75R2-B10	2x32 Panel, 1.5RU 32 UHN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U248E1-UHN75R2-B31	2x48 Panel, 1RU 48 UHN75R2 normaled terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U248E15-UHN75R2-B10	2x48 Panel, 1.5RU 48 UHN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U248E2-UHN75R2-B10	2x48 Panel, 2RU 48 UHN75R2 normaled terminating rear-mount dual jacks, 7" [178mm] cable bar
<b>Complete Jackfields - 16GHz - 12Gb/s non-normaled, non-terminating, 75ohm, Mini-BNC (UHR2)</b>	
AV-U224E1-UHR2-B31	2x24 Panel, 1RU 24 UHR2 non-normaled non-terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U224E15-UHR2-B10	2x24 Panel, 1.5RU 24 UHR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U224E2-UHR2-B10	2x24 Panel, 2RU 24 UHR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E1-UHR2-B31	2x32 Panel, 1RU 32 UHR2 non-normaled non-terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U232E15-UHR2-B10	2x32 Panel, 1.5RU 32 UHR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U232E2-UHR2-B10	2x32 Panel, 2RU 32 UHR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U248E1-UHR2-B31	2x48 Panel, 1RU 48 UHR2 non-normaled non-terminating rear-mount dual jacks, 6" [150mm] cable bar
AV-U248E15-UHR2-B10	2x48 Panel, 1.5RU 48 UHR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar
AV-U248E2-UHR2-B10	2x48 Panel, 2RU 48 UHR2 non-normaled non-terminating rear-mount dual jacks, 7" [178mm] cable bar

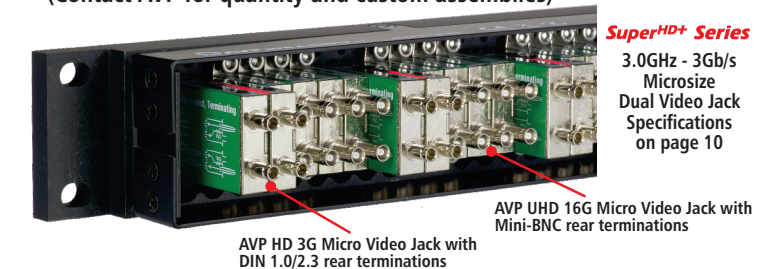
## Create a combination 16G/3G Micro Video Patchbay



Start with a basic UHD micro 16G Series panel configuration that will meet your current or future requirements;

- A panel height of 1RU, 1.5RU or 2RU
- 24 or 32 across for full size BNC rear termination,
- 24, 32 or 48 across for Mini-BNC or DIN 1.0/2.3 rear termination

Order the UHD 16G and HD 3G Micro video jack kits and assemble.  
 (Contact AVP for quantity and custom assemblies)



**SuperHD+ Series**  
 3.0GHz - 3Gb/s  
 Microsize  
 Dual Video Jack  
 Specifications  
 on page 10

### Ordering Information - 16G and 3G Jacks for UHD 4K/8K Micro Series Panel

Model	AVP P/N	Description
AVP-UBN75R2	908995	Kit, 12Gb/s 75ohm, Normaled, Terminating dual Micro jack, BNC rear termination, h/w
AVP-UBR2	909034	Kit, 12Gb/s 75ohm, Non-Normaled, Non-Terminating dual Micro jack, BNC rear termination, h/w
AVP-UHN75R2	908977	Kit, 12Gb/s 75ohm, Normaled, Terminating dual Micro jack, Mini-BNC rear termination, h/w
AVP-UHR2	908978	Kit, 12Gb/s 75ohm, Non-Normaled, Non-Terminating dual Micro jack, Mini-BNC rear termination, h/w
AVP-UDN75R2	909035	Kit, 12Gb/s 75ohm, Normaled, Terminating dual Micro jack, DIN 1.0/2.3 rear termination, h/w
AVP-UDR2	909036	Kit, 12Gb/s 75ohm, Non-Normaled, Non-Terminating dual Micro jack, DIN 1.0/2.3 rear term, h/w
AVP-KMN75-U	909037	Kit for AV-U, 3Gb/s 75ohm, Normaled, Terminating dual Micro jack, DIN 1.0/2.3 rear termination, h/w
AVP-KM75-U	909038	Kit for AV-U, 3Gb/s 75ohm, Non-Normaled, Terminating dual Micro jack, DIN 1.0/2.3 rear termination, h/w
AVP-KMN-U	909039	Kit for AV-U, 3Gb/s 75ohm, Normaled, Non-Terminating dual Micro jack, DIN 1.0/2.3 rear termination, h/w
AVP-KM-U	909040	Kit for AV-U, 3Gb/s 75ohm, Non-Normaled, Non-Terminating dual Micro jack, DIN 1.0/2.3 rear termination, h/w



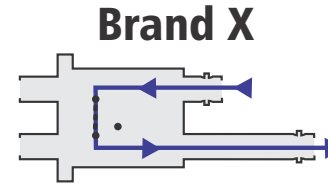
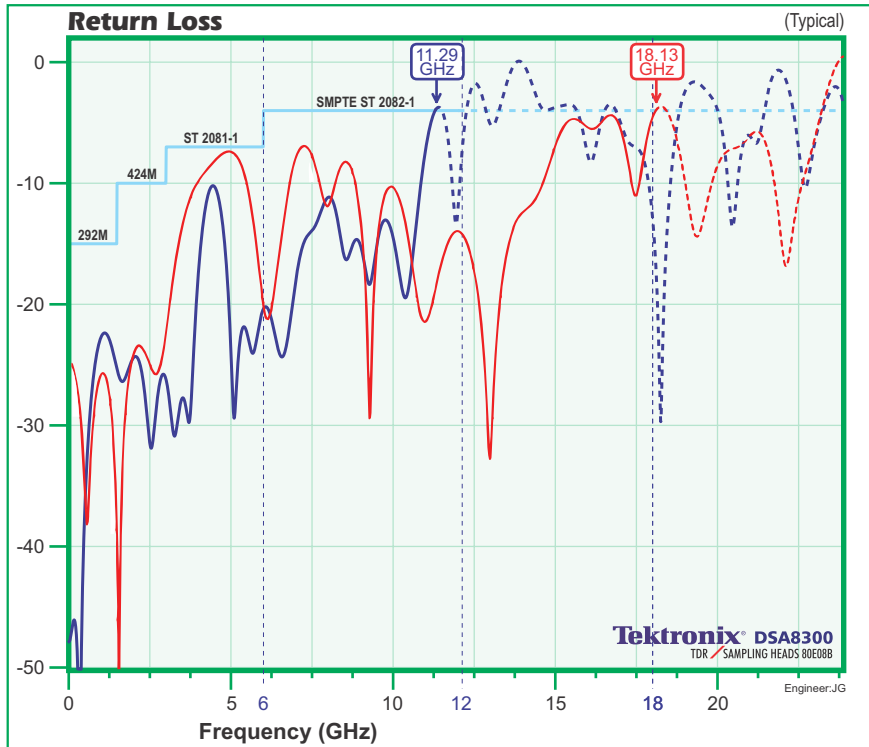
Audio / Video / Digital Patchbays •  
 www.jackfields.com • www.AVPbroadcast.com

phone: +1-519-740-7966 • email: sales@jackfields.com  
 B5-2288 Dumfries Rd., RR2 Cambridge, Ontario Canada N1R 5S3



## AVP UHD 4K/8K Micro Series 16GHz - 12Gb/s Video Jack

## Brand X 12G-SDI Video Jack



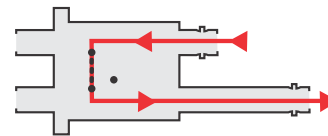
### Test Condition

8 inch [200mm] 1694 launch cables, send on short barrel, receive on long barrel.

### Brand X Published Specification

- 12G-SDI:**
- SMPTE ST 2082-1 compliant
- BNC-BNC:** Normal Through;
- 15dB or greater @ 1.5GHz
- BNC-Video:** Patch Through;
- 10dB or greater @ 3GHz
  - 7dB or greater @ 6GHz
  - 4dB or greater @ 12GHz
- Isolation:**
- 45dB or greater @ 6GHz

### AVP-UBN75R2



### Test Condition

8 inch [200mm] 1694 launch cables, send on short barrel, receive on long barrel.

### Electrical

Meets SMPTE 2082-1  
Characteristic Impedance: 75 ohms  
Contact Resistance: <50 milliohms

### Material

Housing: Copper Alloy, Nickel Plated  
Center Contacts: Copper Alloy, Gold Plated  
Springs: Copper Alloy, Gold Plated  
Insulators: Teflon & Thermoplastic

### Mechanical

Vibration: Per Mil-Std. 202, Method 201  
Insertion Force: 9 lbs Max.  
Withdrawal Force: 2 lbs Min.  
Life Cycle: 20,000 Typical



### Environmental

Temperature; Operating: -40C to 65C  
Storage: -40C to 65C  
Thermal Shock: Per Mil-Std. - 202, Method 107  
Moisture & Humidity: Per Mil-Std. - 202, Method 106  
Salt Spray: Per Mil-Std. - 202, Method 101  
RoHS: Compliant