

Introducing SpaceGAIN—only from Black Box-

Cabinet real estate is expensive. Gain 10 cm of valuable cabling space with SpaceGAIN.

Unique, space-saving cables and panels for high-density infrastructures, crowded cabinets, and the desktop.



Turn tight spaces into right spaces.

- » 90° Right-Angle Patch Cables
- » 48-Port, 1U, High-Density Feed-Through Patch Panels
- » 45° Angled-Port Patch Panels
- » 128° Angled Patch Panels
- » 15 cm Reduced-Length Patch Cables

Reduce cabling space, management, and costs.



Did this ever happen to you? These cables protrude so much you can't even close the cabinet door.



Gain up to 10 cm of valuable cabling space and keep cabinet doors securely locked with SpaceGAIN 90° Right-Angle Patch Cables.

Introducing SpaceGAIN — unique space-saving solutions for highdensity infrastructures, crowded cabinets, and the desktop.

Today, as more and more IT managers move to high-density configurations, space in the data center is becoming more and more valuable. This applies to the desktop, too. Increasingly, people are working with two monitors, a standard keyboard, plus a laptop on their desktop. Space—and cabling—is becoming a real issue.

SpaceGAIN is a new family of patch cables and panels designed to help you create space instead of taking up space in the data cabinet and at the desktop.

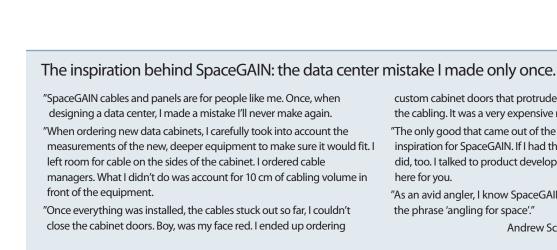
Found only at Black Box, SpaceGAIN cables and patch panels will help turn tight spaces into right spaces. You'll gain space for cabling in the closet and reduce cable management, installation time, and costs. At the desktop, you'll tame cable chaos and make much neater cabling connections. Plus, you'll be able to easily make those really tight, hard-to-fit wallplate connections behind desks and furniture. SpaceGAIN started with some hands-on research. We worked in our data lab and actively developed and tested the SpaceGAIN products. The result is a space-saving solution produced for Black Box customers.

The SpaceGAIN family consists of:

- 90° Right-Angle Patch Cables, pages 3–6 (a Black Box Exclusive)
- 15 cm Reduced-Length Patch Cables, page 7
- Angled Patch Panels, page 8
- 45° Angled-Port Patch Panels, page 9
- 48-Port, 1U, High-Density Feed-Through Patch Panels,
- page 10 (a Black Box Exclusive)
- Available in Cat5e F/UTP and Cat6 S/FTP

Best of all, SpaceGAIN products are guaranteed for life so you can be assured they'll continue working for you for a long time to come.

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custom cabinet doors that protruded 15 cm to accommodate the cabling. It was a very expensive mistake.

- "The only good that came out of the whole unfortunate episode was the inspiration for SpaceGAIN. If I had this problem, I was sure other people did, too. I talked to product development, and the result is presented here for you.
- "As an avid angler, I know SpaceGAIN gives a whole new meaning to the phrase 'angling for space'."

Andrew Schmeltzer, Cabling Product Manager

Gain more cabling space and make neater cabinet connections with the ingenious duo of SpaceGAIN 45° Angled-Port Patch Panels and 90° Right-Angle Patch Cables.

Reduce cabling space, management, and costs.

even more space with our award-winning SpaceGAIN 45° Angled-Port Patch Panels.





CAT5e and CAT6 90° Right-Angle Patch Cables

Tight fit? These cables have the "right angle" to save space.





Gain up to 10 cm of valuable space in crowded data cabinets with SpaceGAIN 90° Right-Angle Patch Cables.

Shown: SpaceGAIN 90° Right-Angle Patch Cable, Down–Down (EVNSL21E-0001-90DD)

FREE, Live, 24/7 Tech Support

We're here to help! If you have any questions about our products,

contact Black Box Network Services

and talk to Tech Support in your

- Save up to 10 cm of space in crowded cabinets.
- Make tight wallplate connections behind furniture and equipment.
- Tame cable chaos on your desktop.
- For the perfect fit, choose from a whole family of cables with up, down, left, and right angled connectors.
- Meet or exceed CAT5e or CAT6 specifications.
- Available in Cat5e F/UTP and Cat6 S/FTP
- · Avoid excessive bends and reduce stress on the cable.
- Feature four 24 AWG unshielded twisted pairs, RJ-45 connectors, molded boots, and a PVC jacket.
- Connectors have gold-plated contacts.
- ++ WARRANTY Lifetime

Retrofitting a cabinet? Installing newer, deeper equipment? Want to make sure your cabinet door closes?

In high-density configurations, cabinet space is becoming an increasingly scarce commodity. Gain space in your cabinets (and ensure the door will close) by using our exclusive SpaceGAIN 90° Patch Cables. You can save up to 10 cm of space in front of your patch panels and rack-mounted equipment. That's significant when every cm counts in today's high-density data centers.

If you've ever retrofitted cabinets or installed extra-

deep equipment, you've probably run into the problem of not being able to close the cabinet door. SpaceGAIN solves the problem. Better yet, you'll save both time and money by eliminating cable managers.

The down and up cables are ideal for data center applications. Use them for high-density patch panel connections. Tame the cable chaos on your desk with the right and left cables. Use them for quick laptop connects and disconnects. They're also ideal for tight wallplate connections behind desks and other furniture.

Connector combinations

own language.

Down and up cables

- -90° down to a 180° straight connector
- –90° down to a 90° down connector
- –90° down to a 90° up connector
- Left and right cables
 - (not to be used in patch panel and
 - switch applications)
 - -90° left to a 180° straight connector -90° right to a 180° straight connector

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The "Ups" and "Downs" of SpaceGAIN 90° Right-Angle Patch Cables.

SpaceGAIN 90° Angle CAT5e/CAT6 Patch Cables come with up, down, left, and right-angled connectors, as well as straight connectors. What you choose depends on your application.





Down-Down Cable The clip is on the bottom and the cable runs down. Shown: EVNSL21E-0003-90DD

Down-Up Cable The down clip faces down and the cable runs down. The up clip faces down and the cable runs up. Shown: EVNSL23E-0003-90DU

Up and down.

Choose the up and down cables to save space when making patch panel, switch, or other equipment connections in your cabinets and racks. They're also great for connections on the back of equipment sitting at the edge of desks or counters.

The up-down cables come in a variety of configurations: down-down, up-down, down-straight, and up-straight.



Right-Straight Cable

The clip is on the bottom and the connector faces right. Shown: EVNSL21E-0003-90RS



To save space at the desktop, choose our left and right cables, which are ideal for laptop or docking station connections. They're also extremely useful for making tight wallplate connections behind furniture. These cables come in right-straight and left-straight configurations.

Left-Straight Cable

The clip is on the bottom

and the connector faces left.

Shown: EVNSL27E-0003-90LS

For complete 90° angle selection information, see pages 5–6.

The move to high-density infrastructures: survey results.

With high-density infrastructures and larger, deeper networking equipment becoming the norm, space in the data center is at a premium.

In recent surveys* of IT professionals around the globe, 85% said they were moving to high-density deployments. Respondents indicated they required higher density to reduce costs and simplify operations.

- The top reasons were:
- 50%: Save cabinet/rack space.
- 47%: Lower costs.
- 45%: Lower energy consumption.
- 39%: Save floor space.
- 38%: Cable management.
- SpaceGAIN can help you do all the above.

If you're moving to a higher-density infrastructure, planning a new data center, or are retrofitting existing cabinets, consider SpaceGAIN.

It will give you the assurance that you'll have enough room to accommodate high-density cabling without excessive cabling volume. That's extremely important when it comes to proper cabinet and data center planning. More cable volume means less space for cool air. More cool air means better energy efficiency and lower energy costs—a plus in going green.

In addition, SpaceGAIN cables and panels can enhance system maintenance and management. By routing cables directly into patch panels and other equipment, you eliminate cable management equipment, costs, and a lot of time in installation and maintenance to work around them.

* "Innovating in a Time of Change: Investment and Technical Trends in the Data Center." CommScope, Sept. 2009

More SpaceGAIN 90° Right-Angle Patch Cables. Turn the page for more applications and specs.



Make tight spaces right spaces with SpaceGAIN.

Save space in crowded cabinets.

In the data center.

SpaceGAIN cables give you an ingenious new way to save space in high-density configurations. Streamline panel and switch connections and gain up to 10 cm of valuable space in crowded cabinets. You'll never have to worry about closing cabinet doors again.

Company <t

Down cable: cable clip faces down and the cable angles down. Shown: EVNSL21E-0001-90DD

Save space at the desktop.

In the office.

SpaceGAIN cables make the perfect desktop companion, especially if you use both a full-size monitor and a laptop. SpaceGAIN cables will keep those chaotic cable connections under control. They're also great for countertop, display, and point-of-sale connections.



Right cable: Cable clip faces down and the cable exits to the right. Shown: EVNSL21E-0003-90RS



Right cable: Cable clip faces up and the cable exits to the left. Shown: EVNSL21E-0003-90RS



Down cable: Cable clip faces down and the cable angles down. Shown: EVNSL24E-0003-90DS

Save space behind furniture.

At the wallplate.

Ever try to push furniture against the wall, but couldn't because of cables sticking out? Now you can without worrying about damaging the connector or accidentally dislodging the cable. SpaceGAIN cables are perfect for those tight wallplate connections.



Up cable: Cable clip faces down and the cable angles up. Shown: EVNSL24E-0003-DU



Down cable: Cable clip faces down and the cable angles down. Shown: EVNSL23E-0003-DS



Left cable: Cable clip faces down and the cable angles left. Shown: EVNSL21E-0003-90LS



Right cable: Cable clip faces down and the cable angles right. Shown: EVNSL21E-0003-90RS

Save even more space with this exclusive SpaceGAIN combo: 90° Patch Cables and 48-Port, 1U, High-Density Feed-Through Patch Panels.

Cat5e F/UTP

Retrofitting a cabinet? Installing newer, deeper equipment? Want to make sure your cabinet door closes?

In high-density configurations, cabinet space is becoming an increasingly scarce commodity. Gain space in your cabinets (and ensure the door will close) by using our exclusive SpaceGAIN 90° Right-Angle Patch Cables with our 48-Port, 1U, High-Density Feed-Through Patch Panel (page 10).

To fit 48 ports in only 1U, the patch panel connectors face up on the top row and down on the bottom row as indicated by the tab area. To achieve the tight, neat configuration as shown to the right, use 90° Down Cables for both rows. This may seem counter intuitive. But the "Down" cable has a clip facing down. Just use it upside down for the top row of the patch panel.



Cables (EVNSL21E-0001-90DD) and High-Density Feed-Through Patch Panels (p. 10).

TECH SPECS

CAT6:

- ACR (Minimum) -1.1 dB/100 m Attenuation — 23.8 dB/100 m (328.1 ft.) @ 100 MHz;
- 39.4 dB/100 m (328.1 ft.) @ 250 MHz ELFEXT — 27.8 dB/100 m (328.1 ft.) @ 100 MHz;
- 19.8 dB/100 m (328.1 ft.) @ 250 MHz Frequency — Up to 250 MHz
- NEXT 42.3 dB/100 m (328.1 ft.) @ 100 MHz; 36.3 dB/100 m (328.1 ft.) @ 250 MHz
- Propagation Delay 536 dB/100 m (328.1 ft.) @ 250 MHz
- PS-ELFEXT 24.8 dB/100 m (328.1 ft.) @ 100 MHz;
- 16.8 dB/100 m (328.1 ft.) @ 250 MHz PS-NEXT - 42.3 dB/100 m (328.1 ft.) @ 100 MHz;
- 36.3 dB/100 m (328.1 ft.) @ 100 MHz Return Loss - 19.0 dB/100 m (328.1 ft.) @ 100 MHz;
- 15.6 dB/100 m (328.1 ft.) @ 250 MHz

CAT5e:

- Attenuation 26.4 dB/100 m (328.1 ft.) @ 100 MHz ELFEXT - 26.4 dB/100 m (328.1 ft.) @ 100 MHz Frequency — Up to 100 MHz NEXT - 35.3 dB/100 m (328.1 ft.) @ 100 MHz Propagation Delay — 538 dB/100 m (328.1 ft.) @ 100 MHz PS-ELFEXT - 20.8 dB/100 m (328.1 ft.) @ 100 MHz
- PS-NEXT 32.3 dB/100 m (328.1 ft.) @ 100 MHz Resistance — 45 ohms/1000 ft.
- Return Loss 19.0 dB/100 m (328.1 ft.) @ 100 MHz Structural Return Loss — 16.0 dB/100 m (328.1 ft.)

@ 100 MHz

CAT6 and CAT5e: Delay Skew — 45 ns/100 m Impedance — 100 ± 15 ohms Mutual Capacitance — 15 pF/ft.

ltem				Code	
SpaceGAIN 90° Right-Angle Patch Cables (UTP) Down–Up Series, 24 AWG, Stranded					
CAT5e 100-MHz					
1-f1	t. (0.3-m)		EVNSLXX	E-0001-90YY	
3-f1	t. (0.9-m)		EVNSLXX	E-0003-90YY	
6-f1	t. (1.8-m)		EVNSL <mark>XX</mark>	E-0006-90YY	
10-ft	t. (3.0-m)		EVNSLXX	E-0010-90YY	
15-ft. (4.5-m)			EVNSLX>	E-0015-90YY	
CAT6	250-MHz				
1-f1	t. (0.3-m)		EVNSLXX	X-0001-90YY	
3-ft. (0.9-m)		EVNSLXXX-0003-90YY			
6-ft. (1.8-m)		I	EVNSL <mark>XX</mark>	X-0006-90YY	
10-ft. (3.0-m)			EVNSLXX	X-0010-90YY	
15-ft. (4.5-m)			EVNSLXX	X-0015-90YY	
To order, replace the "X"s with the number					
assigned to each color.					
CAT5e:	Blue = 21	Red = 23	Yellov	v = 24	
	Black = 27				
CAT6:	Blue = 216	Red = 236	Yellov	v = 246	
	Black = 276				
Then replace the "YY" with the letters					
assigned to each connector.					
90° Down–180° Straight = DS					
90° Down- 90° Up = DU					
90° Down–90° Down = DD					

Example: EVNSL21E-0001-90DS signifies a CAT5e blue, 1-foot, 90° down connector to a straight connector cable.

Item	Code			
SpaceGAIN 90° Right-Angle Patch Cables (UTP)				
Left–Right Series, 24 AWG, Stranded				
CAT5e 100-MHz				
3-ft. (0.9-m) EVNS	SLXXE-0003-90YY			
6-ft. (1.8-m) EVNS	SLXXE-0006-90YY			
10-ft. (3.0-m) EVNS	SLXXE-0010-90YY			
CAT6 250-MHz				
3-ft. (0.9-m) EVNS	SLXXX-0003-90YY			
6-ft. (1.8-m) EVNS	LXXX-0006-90YY			
10-ft. (3.0-m) EVNS	SLXXX-0010-90YY			
To order, replace the "X"s with the number				
assigned to each color.				
CAT5e: Blue = 21 Black = 27				
CAT6: Blue = 216 Black = 276				

Then replace the "YY" with the letters assigned to each connector.

90° Right–180° Straight = RS 90° Left-180° Straight = LS

Example: EVNSL21E-0003-90RS signifies a CAT5e blue, 3-foot, 90° right connector to a straight connector cable.

Also available in Cat5e F/UTP and Cat6 S/FTP

SpaceGAIN CAT5e and CAT6 Reduced-Length Patch Cables Save money by eliminating the need for horizontal cable management.

GUARANTEED





No need for horizontal cable management.

Shown: CAT6 Reduced-Length Cable (EVNSL643-006IN) connecting our GigaTrue^{*} CAT6 48-Port Patch Panel (JPM612A-R6) with the 24-Port Managed Back Office Switch (LGB2003A-R2).





Cable is 15 cm long; 23 cm overall including connectors.

- Eliminate the time and money needed to buy and install horizontal cable managers.
- Cable is 15 cm long with 8 cm of connectors, for a 23 cm overall length.
- Great for connecting a patch panel to a patch panel, or a patch panel to a network switch.
- Use these reduced-length patch cables for super-easy connections in relay racks and cabinets.
- CAT5e cable is rated at 350 MHz.
- CAT6 cable is rated at 550 MHz.
- All feature stranded, 24 AWG conductors, 4 pairs, and a PVC jacket.
- Available in six colors to help you further organize your cabinet.
- **WARRANTY** Lifetime



TECH SPECS

Bend Radius (Min.) — 1.0" (2.54 cm) Conductors — 8 (4 pair) Conductor Gauge — 24 AWG, stranded copper Jacket — PVC Standards — CAT5e, CAT6: TIA/EIA 568C.2 Tensile Strength (Max.) — 25 lb. pulling tension Temperature Rating — 167° F (75° C) Wiring — T568B Size — 9" (22.9 cm) including connectors

ltem	Code			
SpaceGAIN CAT5e 350-MHz Reduced-Length Patch Cables				
6-in. (15.2 cm)	EVNSLXX-06IN			
To order, replace the "XX" with the number assigned to each color. Gray = 80 Green = 82 Yellow = 84 Blue = 81 Red = 83 Black = 87				

SpaceGAIN CAT6 550-MHz Reduced-Length Patch Cables 6-in. (15.2 cm) EVNSLXXX-06IN

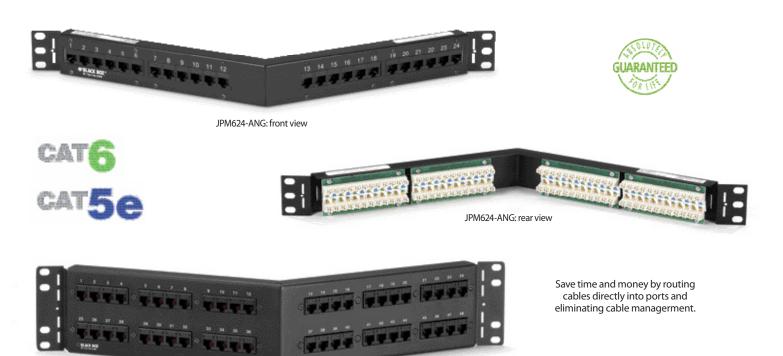
To order, replace the "XXX" with the number assigned to each color. Gray = 640Green = 642 Yellow = 644 Blue = 641Red = 643Black = 647

BLACK BOX

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SpaceGAIN Angled Patch Panels

Free up valuable space—angled design eliminates the need for horizontal cable managers.



JPM5E48-ANG

- 128° forward angle provides better cable organization.
- · Angled design eliminates the need for horizontal cable managers.
- Enable cables to flow from vertical cable management channels in an organized fashion.
- Route cables directly into the ports.
- Free up valuable rack space.
- · Ideal for high-density applications.
- Meet or exceed all CAT6 and CAT5e standards.
- 100% factory tested.
- Rolled-edge, 16-gauge steel construction provides superior strength to eliminate flexing during termination.
- Support T568A and T568B for universal wiring.
- Meet the EIA/TIA-310-D rackmount standard.
- Include (4) 10-32 and (4) 12-24 screws.
- Choose from CAT6 and CAT5e panels with 24 or 48 ports.
- Made in the USA.
- **WARRANTY** Lifetime

Meets standards for:

CAT6

- CAT6 component performance (EIA/TIA-568-C.2);
- CAT6 channel performance (ISO 11801 Class EA);
- PoE and PoE+ operation (IEEE 802.3at).

CAT5e

- CAT5e component performance (EIA/TIA-568-C.2);
- CAT5e channel performance
 (ISO 11801 Class D);
- PoE and PoE+ operation (IEEE 802.3at).

TECH SPECS

Connectors — Front: (24) or (48) RJ-45; Rear: (24) or (48) 110 punchdown contacts Construction — 16-gauge cold, rolled steel Nose Contact Material — Beryllium copper with precious metal plating and nickel under-plating Wiring — T568A or T568B, 22 to 26 AWG, solid or stranded Size — JPM624-ANG, JPM5E24-ANG: 1.75"H (1U) x 19"W x 5"D (4.4 x 48.3 x 12.7 cm); JPM648-ANG, JPM5E48-ANG: 3.5"H (2U) x 19"W x 5"D (8.8 x 48.3 x 12.7 cm) Weight — JPM624-ANG, JPM5E24-ANG: 1.4 lb. (0.6 kg);

JPM648-ANG, JPM5E48-ANG: 2.5 lb. (1.1 kg)

ltem	Code		
SpaceGAIN Angled Patch Panels			
CAT6			
24-Port	JPM624-ANG		
48-Port	JPM648-ANG		
CAT5e			
24-Port	JPM5E24-ANG		
48-Port	JPM5E48-ANG		

SpaceGAIN 45° Angled-Port Patch Panels

Go down, not out—save up to 10 cm by angling cables at 45°.





- Close quarters? This patch panel features 45° angled connector modules to conserve space.
- Gain up to 10 cm in front of every panel.
- Save time and money by eliminating horizontal cable managers in front of the panel.
- · Ideal for retrofitting data cabinets.
- Features angled RJ-45 connectors on one side and straight Krone/110 dual IDC connectors on the other.
- Great for strain relief and maintaining bend radius.
- Rolled-metal construction provides strength for repeated punches.
- Meets or exceeds CAT6 or CAT5e requirements.
- Choose from 24- or 48-port models.

Save space and time in the data center with these 45° Angled-Port Patch Panels. The connectors tilt downward at a 45° angle making patching easier. Because the cables flow smoothly downward and don't protrude, you can save 5 or 10 cm—or more—in front of every panel. You'll especially appreciate those extra centimeters when retrofitting cabinets with newer, deeper equipment. If you've run into situations where cabinet doors don't close or need to be removed to accommodate cable, you'll never go back to straight panels again!

Plus, because there is a nice downward cable flow, you can eliminate horizontal cable managers, saving a bundle of time and money. You also get the bonus of not having to worry about bend radius and strain relief.



45° angled ports allow for patch cables to drape down, freeing up to 10 cm of cabinet depth. You'll also save time and money by eliminating horizontal cable managers in front of the panel. Shown: JPM648-45ANG



JPM5E24-45ANG



JPM5E48-45ANG

TECH SPECS

Connectors — (24) or (48) RJ-45 to (24) or (48) Krone/IDC 110 Wiring — T568A or T568B, 22 to 26 AWG, solid or stranded Size — JPM624-45ANG, JPM5E24-45ANG:

1.75"H (1U) x 19"W x 1.1"D (4.4 x 48.3 x 2.8 cm); JPM648-45ANG, JPM5E48-45ANG: 3.45"H (2U) x 19"W x 1.1"D (8.8 x 48.3 x 2.8 cm)

Weight — JPM624-45ANG, JPM5E24-45ANG: 1.12 lb. (0.5 kg); JPM648-45ANG, JPM5E48-45ANG:

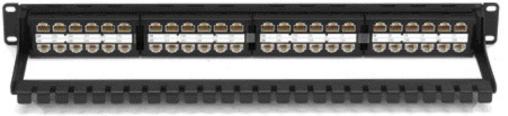
2 lb. (0.9 kg)

ltem		Code	
SpaceGAIN 45° Angled-Port Patch Panels			
CAT6			
24-Port	JPM624-4	M624-45ANG	
48-Port	JPM648-4	JPM648-45ANG	
CAT5e			
24-Port	JPM5E24-	45ANG	
48-Port	JPM5E48-	45ANG	

SpaceGAIN CAT5e/CAT6 High-Density Feed-Through Patch Panels Fit 48 ports into only 1U of rack space and no punchdowns needed!



JPM810A-HD: front view



JPM810A-HD: rear view

- Save space in crowded data cabinets.
- Feature 48 easy-to-use RJ-45 to RJ-45
- feed-through ports all in 1U!Use this sturdy panel for high-density
- applications in all 19" relay racks or communications cabinets.
- Provide patching without punching down the wires to the ports.
- Meet or Category 6 or Category 5e performance requirements.
- · Choose from shielded or unshielded models.
- Cable management bar helps support cables attached to the rear of the panel.
- **WARRANTY** Lifetime



Connectors — (48) RJ-45 front; (48) RJ-45 rear Standards — CAT6 and CAT5e: TIA/EIA-568-C.2 Wiring — T568A or T568B Size — 1.75"H (1U) x 19"W x 6"D (4.4 x 48.3 x 15.3 cm) Weight — JPM816A-HD, JPM806A-HD: 3.8 lb. (1.7 kg); JPM820A-HD, JPM810A-HD: 2.4 lb. (1.1 kg)

What's included:

- SpaceGAIN High-Density Feed-Through
 Patch Panel
- (4) 10-32 cuphead screws
- (4) 12-24 cuphead screws
- (8) cable ties
- (8) station ID labels

ltem	Code			
SpaceGAIN High-Density Feed-Through Patch Panels				
CAT6				
Shielded	JPM816A-HD			
Unshielded	JPM820A-HD			
CAT5e				
Shielded	JPM806A-HD			
Unshielded	JPM810A-HD			

Save even more space with this SpaceGAIN combo: 48-Port, 1U High-Density Feed-Through Patch Panels and 90° Patch Cables.

Retrofitting a cabinet? Installing newer, deeper equipment? Want to make sure your cabinet door closes?

In high-density configurations, cabinet space is becoming an increasingly scarce commodity. Gain space in your cabinets (and ensure the door will close) by using our exclusive SpaceGAIN 90° Patch Cables with your new High-Density Feed-Through Patch Panel.

To fit 48 ports in only 1U, the patch panel connectors face up on the top row and down on the bottom row as indicated by the tab area. To achieve the tight, neat configuration as shown to the right, use 90° Down Cables for



Use the High-Density Feed-Through Patch Panels (above) with our 90° Down Patch Cables (EVNSL21E-0001-90DD) (pp. 3–6).

both rows. This may seem counter intuitive. But the "Down" cable has a clip facing down. Just use it upside down for the top row of the patch panel.

BLACK BOX

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- KVM ServSwitch[™]
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- Interface & Protocol Converters
- Networking
- Network Security
- Power & Surge Protection

- Peripheral Switching & Sharing
- Switches
- •T1/E1/G.703/DDS/ISDN
- Voice Communications
- Testers & Tools
- Wireless



FREE, Live, 24/7 Tech Support

We're here to help! If you have any questions about our products, contact Black Box Network Services and talk to Tech Support in your own language. Go to BLACK-BOX.EU for your nearest office

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