SYSTIMAX® VisiPatch® 360 SYSTEM | Technical Documentation

The SYSTIMAX® VisiPatch® 360 System is a new generation of patching systems that seamlessly incorporates patching and integrated cable management to deliver an ergonomically designed and aesthetically pleasing solution that saves time, space and money.

The VisiPatch 360 System utilizes a unique reverse patching technology that allows the patch cord to be projected away from the user and into the patching field. This design improves cord management by reducing the "spaghetti" cord clutter associated with poorly installed RJ-45 systems and makes reading the labeling information easy, facilitating future moves, adds and changes.

Both port density and usable density are increased in the VisiPatch 360 System. Because of cable and patch cord congestion in traditional RJ-45 systems, the usable density is lower than the port density. The new VisiPatch 360 System, however, is designed to maximize usable density by minimizing cable and cord congestion.

The new VisiPatch 360 System is available for wall-mount as well as rack-mount and cabinet installations. Plus, its modular design means that it is available for small and large installation needs.

Key VisiPatch 360 System features and benefits

- ▸ Best-in-class transmission performance
- ▸ Supports 10 Gb/s and 1 Gb/s Ethernet applications
- ▸ Compact ergonomic components
- ▸ Modular, scalable and flexible
- ▸ Increased port density and usable density
- ▸ Easy access to patch plug
- ▸ Snap-together components
- ▸ Unique reverse patching technology
- ▸ Clear and simple port labeling
- ▸ Sleek and elegant design
- ▸ Integrated horizontal and vertical cable and patch cord management
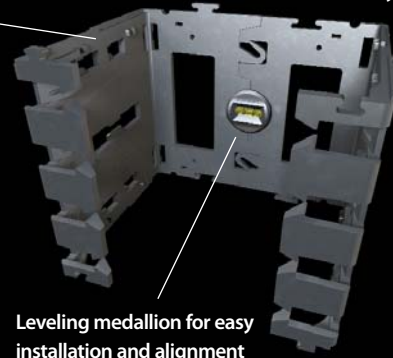
Back Panel ▶ ▶ ▶

Interlocking tabs for quick, easy stacking
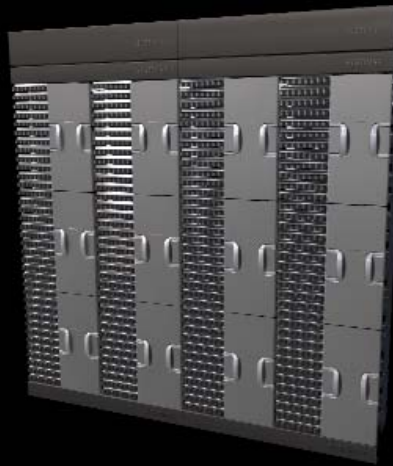
Depth for 10 Gb/s cable

Leveling medallion for easy installation and alignment

Wiring Block/Connecting Block ▶ ▶ ▶

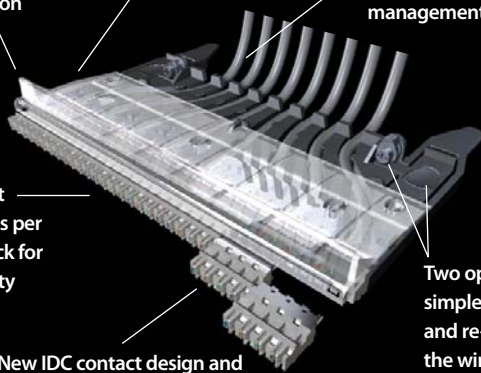Integrated label holder for easy circuit identification

One-piece cover for quick, easy installation

Open back and channel guides for easy cable management

Up to eight 4-pair ports per wiring block for high density

Two options for simple detaching and re-latching the wiring block

New IDC contact design and compensation for improved electrical performance
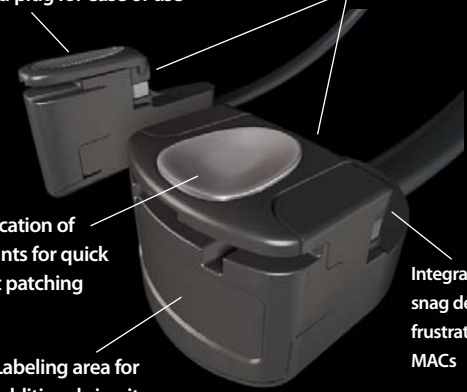
Patch Cord ▶ ▶ ▶

Compact, ergonomically designed plug for ease of use

4-pair and 1-pair patch cords available

Clear demarcation of gripping points for quick and efficient patching

Integrated anti-snag design for frustration-free MACs

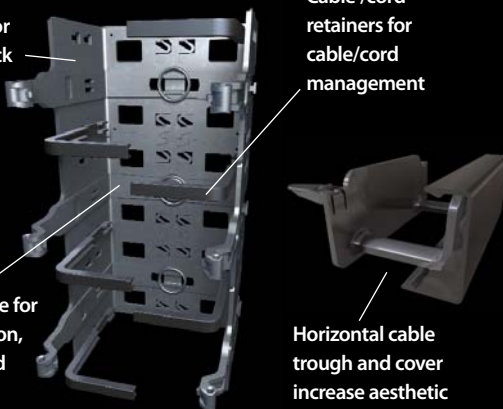Labeling area for additional circuit identification

Cable Management ▶ ▶ ▶

Depth for cord slack

Cable /cord retainers for cable/cord management

Spacer module for easy installation, alignment and spacing

Horizontal cable trough and cover increase aesthetic appeal

Vertical Trough Cover ▶ ▶ ▶

Double-hinged for convenient opening on right and left sides

Sleek, fully integrated handles for reduced snagging on clothing or cables

Available in 12U and 7 ft (future availability) for wall-mount and rack-mount or cabinet applications

Easily removed by lifting both handles

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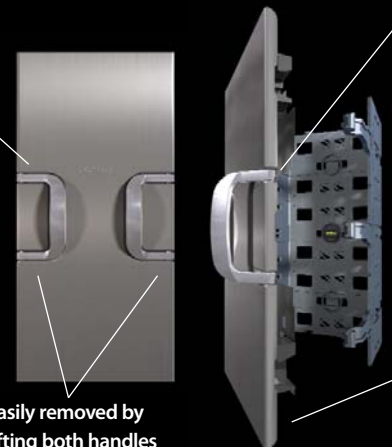
▶▶▶ Ordering Information

	MID	Product ID	Description	Component Description	Qty
Patch Panel Kits					
	760049445	VP360-4U-32P	VisiPatch 360 4U (32 ports) Kit		
				VisiPatch 360 Back Panel 4U	1
				Leveling Medallion	1
				VisiPatch 360 Wiring Block	4
				VisiPatch 360 Wiring Block Cover	4
				VisiPatch 360 Connecting Block	32
				VisiPatch Label Holder	4
				White Label	12
	760049452	VP360-12U-96P	VisiPatch 360 12U (96 ports) Kit		
				VisiPatch 360 Back Panel 12U	1
				Leveling Medallion	1
				VisiPatch 360 Wiring Block	12
				VisiPatch 360 Wiring Block Cover	12
				VisiPatch 360 Connecting Block	96
				VisiPatch Label Holder	12
				White Label	12
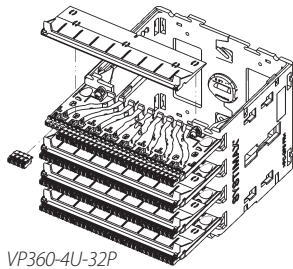
VP360-4U-32P
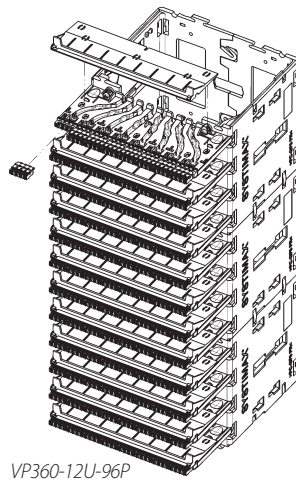
VP360-12U-96P

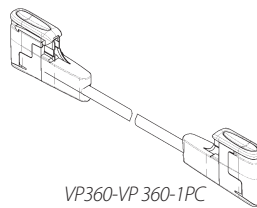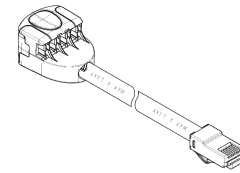|			
Patch Cords - GS5			
	CPCFF32	VP360-VP 360-4PC-X10D	VisiPatch 360 X10D Patch Cord
	CPCFF62	VP360-VP 360-1PC	VisiPatch 360 1-pair Patch Cord
	CPCF732	VP360-GS10E-4PC-X10D	VisiPatch 360 -GS10E Hybrid Patch Cord
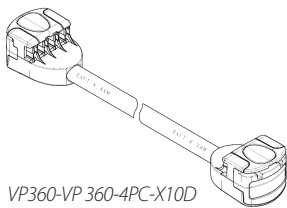
VP360-VP 360-4PC-X10D

Recommended label sizes for patch cord plugs are:
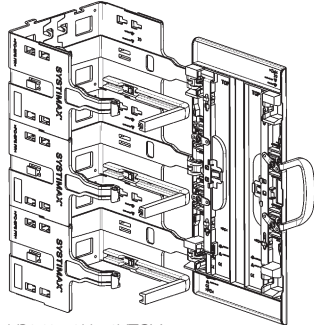*• 3/8" H x 7/8" W for 4-pair*
*• 1/2" H x 1/4" W for 1-pair*

VP360-VP 360-1PC

VP360-GS10E-4PC-X10D

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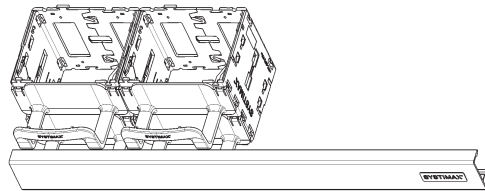|	MID	Product ID	Description	Component Description	Qty
Cable Manager Kits - Vertical					
	future availability	VP360-45U-10VTCM	VisiPatch 360 7 ft Rack Vertical Trough Cable Mgr Kit e/w Door, 10"		
	760060285	VP360-12U-10VTCM	VisiPatch 360 12U Vertical Trough Cable Mgr Kit e/w Door, 10"		
				VisiPatch 360 12U VTCM Door, 10"	1
				4U Spacer Module	3
				4U Spacer Module Extender	3
				Leveling Medallion	1
				Macro Cable/Cord Retainer	3

VP360-12U-10VTCM

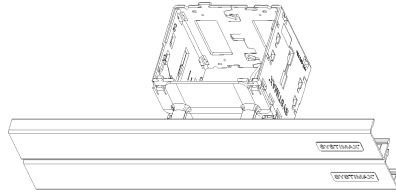|	MID	Product ID	Description	Component Description	Qty
Cable Manager Kits - Horizontal					
	760060301	VP360-HCM-Kit-27	VisiPatch 360 Horizontal Cable Mgr Kit, 27"		
				4U Back Panel Base	2
				Horizontal CM Trough	4
				Horizontal Cover, 27"	2
	760060871	VP360-HCM-Kit-37	VisiPatch 360 Horizontal Cable Mgr Kit, 37"		
				4U Back Panel Base	2
				Horizontal CM Trough	4
				Horizontal Trough Cover, 37"	2
	760060343	VP360-HCM-Kit-19	VisiPatch 360 Horizontal Cable Mgr Kit, 19"		
				4U Back Panel Base	1
				Horizontal CM Trough	2
				Horizontal Trough Cover, 19"	2
	760060863	VP360-HCM-Kit-29	VisiPatch 360 Horizontal Cable Mgr Kit, 29"		
				4U Back Panel Base	1
				Horizontal CM Trough	2
				Horizontal Trough Cover, 29"	2
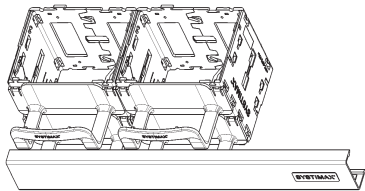
VP360-HCM-Kit-27

VP360-HCM-Kit-37
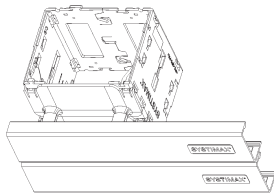

VP360-HCM-Kit-19

VP360-HCM-Kit-29

MID	Product ID	Description	Component Description	Qty
Accessories				
760060277	VP360-CB-10	VisiPatch 360 Connecting Block, 10/pk		
			VisiPatch 360 Connecting Block	10
760060251	VP360-4U-BPK	VisiPatch 360 4U Back Panel Kit		
			VisiPatch 360 Back Panel 4U	1
			Leveling Medallion	1
			Metal Clip	4
760060327	VP360-RMBKT	VisiPatch 360 19" Rack Mount Bracket		
			19" Rack Mounting Bracket	1
760060335	VP360-CBF-SK	VisiPatch 360 Cable Bundle Fastener Kit, Small		
			Micro Cable/Cord Retainer	4
108528407	110YG3-2688L	Yellow Label		96
108528415	110WG3-2688L	White Label		96
108528423	110SG3-2688L	Slate Label		96
108528431	110RG3-2688L	Red Label		96
108528449	110PG3-2688L	Purple Label		96
108528456	110GG3-2688L	Green Label		96
108528597	110CG3-2688L	Orange Label		96
108528464	110BG3-2688L	Blue Label		96
108528472	110KG3-2688L	Brown Label		96
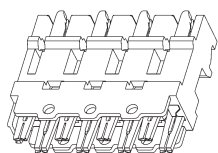
VP360-CB-10
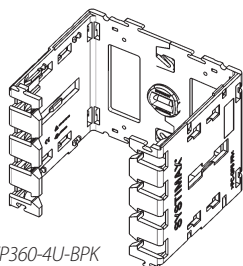
VP360-4U-BPK

VP360-RMBKT

VP360-CBF-SK
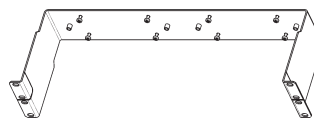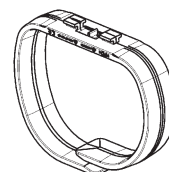
MID	Product ID	Description	Component Description	Qty
Tool Kits				
760060350	VP360-788-HEAD	VisiPatch 360 4-pair Head for 788 Tool		
			4-pair Block Punch Down Block	1
760060368	VP360-914-BIT	VisiPatch 360 1-pair Tool Bit for D-914 Impact Tool		
			1-pair Punch Down Bit	1
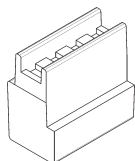
VP360-788-HEAD

VP360-914-BIT

▶▶▶ Guaranteed Performance Specifications for GigaSPEED® X10D Solution[1]

Electrical Parameters	Guaranteed Channel Margins to ISO/IEC 11801 : 2002 "Class E" (1 – 250 MHz)	Guaranteed Channel Margins to Draft ISO/IEC 11801 Edition 2.1 "Class E$_A$" (1 – 500[2] MHz)
Insertion Loss	5.0 %	2.0 %
NEXT	6.0 dB	1.0 dB
PSNEXT	7.5 dB	2.5 dB
ACR-F	6.0 dB	4.0 dB
PSACR-F	8.0 dB	6.0 dB
Return Loss	3.0 dB	0.0 dB
PSANEXT	N/A	0.0 dB
PSAACR-F	N/A	0.0 dB

▶▶▶ Guaranteed Channel Performance Specifications for 4-Connection GigaSPEED X10D System[3]

Frequency (MHz)	Insertion Loss (dB)	PSANEXT (dB)	PSAACR-F (dB)	NEXT (dB)	ACR-N (dB)	PSNEXT (dB)	PSACR-N (dB)	ACR-F (dB)	PSACR-F (dB)	Return Loss (ns)	Delay (ns)	Delay Skew (ns)
1.0	3.8	75.0	75.0	71.0	68.9	69.5	67.4	69.3	68.3	22.0	580	40
4.0	4.0	74.0	65.0	69.0	65.0	68.0	64.0	57.2	56.2	22.0	562	40
8.0	5.6	71.0	58.9	64.2	58.5	63.1	57.5	51.2	50.2	22.0	557	40
10.0	6.3	70.0	57.0	62.6	56.3	61.5	55.2	49.3	48.3	22.0	555	40
16.0	7.9	68.0	52.9	59.2	51.3	58.1	50.2	45.2	44.2	21.0	553	40
20.0	8.9	67.0	51.0	57.6	48.7	56.5	47.6	43.2	42.2	20.5	552	40
25.0	10.0	66.0	49.0	56.0	46.1	54.8	44.9	41.3	40.3	20.0	551	40
31.3	11.2	65.1	47.1	54.4	43.3	53.2	42.1	39.3	38.3	19.5	550	40
62.5	15.9	62.0	41.1	49.4	33.4	48.1	32.2	33.3	32.3	17.0	549	40
100.0	20.4	60.0	37.0	45.9	25.6	44.6	24.2	29.3	28.3	15.0	548	40
200.0	29.4	55.5	31.0	40.8	11.4	39.4	10.0	23.2	22.2	12.0	547	40
250.0	33.1	54.0	29.0	39.1	6.0	37.7	4.5	21.3	20.3	11.0	546	40
300.0	36.5	52.8	27.5	32.7	-3.8	31.3	-5.3	20.0	19.0	8.0	546	40
400.0	42.7	51.0	25.0	30.6	-12.2	29.1	-13.7	17.5	16.5	8.0	546	40
500.0	48.3	49.5	23.0	28.9	-19.4	27.3	-21.0	15.5	14.5	8.0	546	40

▶▶▶ Select Product Dimensions

Patch Panel Kits	Height	Width	Depth
4U (32 ports)	7.1 in (18.03 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)
12U (96 ports)	21.2 in (53.84 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)

Cable Manager Kits - Vertical	Height	Width	Depth
12U	21.0 in (53.34 cm)	10.0 in (25.40 cm)	11.8 in (29.97 cm)

▶▶▶ Electrical Specifications

Insulation Resistance	>1000 MOhms min.	Dielectric Withstand Voltage	Fault Current Test	7 A for a minimum of 5 seconds
Current Rating	2.0 A @ 20° C (68° F)	1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface	UL, CUL, CE, Austel	Listed
EIA/TIA Category	6A			

[1] Insertion Loss margin is calculated based on 12m of 95 series cordage and 88m of 91A series cable plus 4 connections. If the total cord length in a 100m channel has to be greater than 12m, please refer to the GigaSPEED X10D Design and Installation Guidelines for the instruction on how to scale cable and cord length properly.

[2] Guaranteed Channel Performance Margin for registered SYSTIMAX SCS installations performed by a SYSTIMAX BusinessPartner in accordance with the GigaSPEED X10D Design and Installation guidelines.

[3] Note: The table provides reference values only. All parameters comply with the governing equations given above over the entire frequency range. All values and equations apply to worst-case channels utilizing four-pair 91A series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for the length up to 100 meters.