

Frequently Asked Questions

CUBE-iT PLUS™ WALL- AND FLOOR-MOUNT CABINET



13265-X24	11840-X24	13491-X60
13265-X36	11840-X36	13494-X60
13265-X48	11840-X48	13492-X60
13275-X24	11900-X24	13495-X60
13275-X36	11900-X36	13493-X60
13275-X48	11900-X48	13496-X60
11890-X24	11996-X26	13491-X72
11890-X36	11996-X36	13494-X72
11890-X48	11996-X48	13492-X72
11901-X24	12419-X24	13495-X72
11901-X36	12419-X36	13493-X72
11901-X48	12419-X48	13496-X72

Q-How do I mount the cabinet on the wall?

A. Installation instructions that detail proper installation are provided with each cabinet. There are two critical installation steps:

- a. First, the cabinet must be attached directly to building structure - directly into wall studs. The wall surface must be flat.
- b. Second, the cabinet must be level and plumb on the wall.

Q-How much usable depth is available for rack-mounted equipment?

A. The table below lists, overall depth, cabinet body depth, and maximum usable depth of equipment. The rear sub-panel of the cabinet is 5" deep. The full cabinet body depth is available for rack-mount equipment. Maximum usable depth includes space within the 5" deep rear panel. Equipment mounting rails are located at the very front of the cabinet for maximum usable depth.

Depth (in inches)		
Cabinet Overall	Cabinet Body	Maximum Usable
13"	7"	11.8"
18"	12"	16.8"
24"	18"	22.8"
30"	24"	28.8"

Q-Can the cabinet body swing open to the right or left?

A. Yes, simply flip the cabinet over during installation. Install the cabinet on the wall with the hinge between the sub-panel and cabinet body on the left or right side of the cabinet. On 60" high and 72" high models, the wheeled base and bottom support brackets will need to be removed and reinstalled on the opposite end of the cabinet.

Q-Can the door open to the right or left?

A. Yes, the door is attached with hardware on the front surface of the cabinet body. The cabinet body is pre-punched to receive the door on the right or left side. Remove the hardware and the door, replace on the opposite side, if necessary.

Q-How do I adjust the depth of the equipment mounting rail in the cabinet body?

A. On 24" high, 36" high and 48" high models, the equipment mounting rail bolts to the cabinet body. Remove the hardware and the rail, reposition the rail and reattach the rail with the hardware. Be careful to align the rails so that panel mount equipment is flush. On 60" high and 72" high models, the equipment mounting rail attaches to hardware that is captive in a slide. The slide is marked with a numbered scale to make rail adjustment and alignment easy. Simply loosen the retaining nuts and slide the rail to the new position. Then, tighten the retaining nut.

Q-Can I add additional equipment mounting rails to the cabinet?

A. Yes. Each cabinet includes one pair of equipment mounting rails and can be fitted with two pairs of equipment mounting rails. The second pair of mounting rails is purchased separately. Select accessory mounting rails to match the height of the cabinet.

Q-How are cables managed in the cabinet?

A. A vertical cable manager is available for the 60" high and 72" high cabinets. The vertical cable manager is sold as an accessory. It attaches to either side of the cabinet and can be adjusted front-to-rear, one cable manager per side can be used with the 18"D cabinets. 24" deep and 30" deep models can support two vertical cable managers per side. The cable manager has 1 RMU high openings for cables that align with each RMU on the cabinet's equipment mounting rail. T-shaped "fingers" divide and organize patch cords by RMU. There are cable tie points on the side of the equipment mounting rails in 24" high, 36" high and 48" high cabinets.

Q-Can a power strip be added to the cabinet?

A. Yes. CPI offers 8-outlet power strips that attach to the top, front or side of the cabinet body. 19" EIA rack-mount power strips can be used in any cabinet, when attached to the equipment mounting rails in the cabinet body. Additionally, full-size 20-outlet vertical power strips for CPI Cabinets can be placed in the 72" high CUBE-iT PLUS Cabinet, and the full-size 10-outlet

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vertical power strip for CPI Cabinets can be placed in the 60" high or 72" high CUBE-iT PLUS Cabinet. The full-size vertical power strips attach to the back of the cabinet body.

Q-How do you bond equipment in the CUBE-iT PLUS Cabinet to the Telecommunications Grounding Busbar (TGB)?

A. Extend the TGB into the cabinet by connecting the equipment mounting rails together with a Horizontal Rack Busbar (P/N 10610-019). Connect the Horizontal Rack Busbar to the TGB using a minimum #6 AWG green insulated copper wire and a 2-hole lug with 3/4" bolt-hole spacing (P/N 40162-902). Refer to ANSI-J-STD-607-A, local code or the authority having jurisdiction for selection and sizing of conductors. Apply copper-to-copper antioxidant (P/N 40168-101) in between the bus bar and lug after cleaning the surfaces and prior to securing the lug. Use a 2-hole lug to connect the other end of the conductor to the TGB also. Then, bond the equipment chassis to the Horizontal Rack Busbar following the equipment manufacturer's recommendations. CPI has a complete line of grounding and bonding products including lugs for various size conductors and wall-mount bus bars for TGB and TMGB applications.

Q-Are CUBE-iT PLUS Cabinets NEMA rated?

A. No. Cabinets are intended for use in indoor environmentally controlled environments, not in the plenum space, out-of-doors, or industrial environments.

Q-Are the locks on the front door and rear panel keyed alike?

A. Yes. Each cabinet includes two keys.

Q-What shelves can be used in the cabinet?

A. Single-sided rack shelves can be used in any cabinet. The depth of the shelf must not exceed the maximum usable depth of the cabinet. CPI recommends:

- a. 10" Deep Shelf (P/N 12291-X01), which is 17-1/4" wide by 10" deep, uses 2 RMU and will support 40 pounds of equipment.
- b. 15" Deep Shelf (P/N 40074-X00), which is 17-1/4" wide by 15" deep, uses 2 RMU and will support 50 pounds of equipment.

Double-sided rack shelves can be used in the 60" high and 72" high cabinets. The shelves should be designed to attach to a 3" deep equipment mounting rail and the shelf depth should not exceed the maximum usable depth of the cabinet. In this configuration, the mounting rail will not be located near the front of the cabinet. It will be located near the center of the cabinet. The shelf projects to the front and rear of the rail. CPI recommends:

- a. 21-3/4" Deep Double-Sided Shelf (P/N 40108-X19), which is 17-3/4" wide by 21-3/4" deep, uses 4 RMU and will support 100 pounds of equipment. For the 30" deep cabinet.
- b. 26" Deep Double-Sided Shelf (P/N 11054-X19), which is 17-34" wide by

26" deep, uses 4 RMU and will support 150 pounds of equipment. For the 30" deep cabinet.

- c. 20" Deep Double-Sided Low Profile Shelf (P/N 11359-X19), which is 17-3/4" wide by 20" deep, uses 2 RMU and will support 60 pounds of equipment. For the 24" deep or 30" deep cabinet.
- d. 20" Deep Double-Sided Heavy Duty Shelf (P/N 11164-X19), which is 17-3/4" wide by 20" deep, uses 4 RMU and will support 200 pounds of equipment. For the 24" deep or 30" deep cabinet.

Additionally, 60" high and 72" high cabinets can support 4-point shelves for cabinets when equipped with an accessory mounting rail (four equipment mounting rails).

Q-Can a fan be added after equipment is installed into the cabinet?

A. No. The fan is located on the inside of the cabinet, on the side of the cabinet. Once equipment is installed in the cabinet, it may block access to the fan. The fan should be installed prior to installing equipment into the cabinet.

Q-How do I add block mounting hardware to the rear sub-panel?

A. Use the Termination Block Panel (P/N 13287-501) for mounting four 66-style/H89D-style brackets. Use the Termination Block Panel (P/N 13288-501) for mounting six 100-pair or two 300-pair 110-D-style blocks.

Q-How do I add patch panels to the rear sub-panel?

A. Use the 45° Mounting Bracket (P/N 12796-501). 45° Mounting Bracket provides 3 RMU of mounting space for patch panels and orients the patch panels at 45° to the rear panel for easy access to connectors.

Q-How do I add active equipment to the rear sub-panel?

A. Use the 90° Mounting Bracket (P/N 13285-501). 90° Mounting Bracket provides 2 RMU of mounting space for active equipment and orients the equipment vertically within the 5" deep rear panel.

Q-Can I support active equipment vertically from the equipment mounting rails within the cabinet body?

A. Yes. Use the Vertical Mounting Bracket (P/N 13286-501 or 13286-502). Vertical Mounting Bracket attaches to the equipment mounting rails, providing 2 RMU or 3 RMU of mounting space for active equipment. Vertical Mounting Bracket orients the equipment vertically within the cabinet body. Vertical Mounting Bracket will hold 75 pounds of equipment and is especially useful in 13" deep and 18" deep cabinets.