

Bill of Materials

Part Number	Description
MDC79D	42 RU pre-configured industrial micro data center, 78.1" (1984mm) height, network cabling, 4 casters, and shock pallet
S8222B	Net-access S-type cabinet frame. Single hinge perforated front door. Split perforated rear doors. 79.8" H x 31.5" W x 48.0" D
CPPA48FMWBLY	Angled 48-port flush mount patch panel supplied with rear-mounted faceplates
CPPL24M6BLY	24-port patch panel supplied with 4 factory-installed CFPLM6BL snap-in faceplates
CJ688TGBL	Cat 6, 8-position, 8-wire universal module
CMPHF1	D-rings installed on panel
PSL-DCJB	Jack module block-out device
TLBP1R-V	Tool-less blanking panel for 1RU
UTP28SP5GR	Cat 6 performance, 28 AWG UTP patch cord with TX6 modular plugs on each end, green, 5 feet length
FX2ERLNLNSNM002	OM3 2-fiber patch cord, riser rated, LC duplex to LC duplex with 1.6mm jacket, 2 meter length
FAP6WBLDLC	LC OM2 FAP loaded with 6 LC duplex multimode fiber optic adapters (black) with phosphor bronze split sleeves
FCE1UA	Holds up to 5 QuickNet cassettes, FAP adapter panels, or FOSM splice modules
Q1L2B3J2M24AFA0	Vertical power strip, 32A, 18 IEC C-13 and 6 IEC C-19 locking receptacles, and IEC-60309-6H 2P+E plug
RGRB19CN	Grounding busbar kit, 19" long, 20 holes
RGEJ660PF	#6 AWG jumper, 60" long, 45° bent lug
R100X150V1T	TurnTellThermal transfer, vinyl, 1.00" W x 1.50" H, 0.50" POA, clear/white, 3" core
SRBBRWC-KIT	Strain relief bar with integrated adjustable clips and pair of quick release brackets
IUC6C04ABL-CEG	Industrial copper cable, Cat 6, 4-pair, 24/7 AWG stranded, U/UTP, CM, black, 1000ft/305m reel
FSPD508-050M	8-fiber OM2 dielectric conduited, low-smoke zero halogen (LSZH) riser (OFNR) rated, (MM) indoor distribution cable, 50 meters length
IABDIN4	4 RU din-rail conversion kit

For More Information

For more information, contact your local distributor, Panduit Sales Representative, or Rockwell Automation Sales Representative. www.panduit.com/ia iai@panduit.com

About this Configuration

Server, Switch, Storage, etc. Layout

For best stability, heavier equipment like server, UPS, and storage should be mounted towards the bottom of a cabinet or rack with lighter components like switch, firewall, and patch panel towards the top. Reliable and efficient cabling is best with all equipment ports facing backwards. Equipment like switches may need to be turned around with their port side facing backwards. Cabinet rails may need to be moved forward to line up devices on the front. Ensure cabinet or rack RU holes are compatible with equipment rails and brackets.

Cable Management

Follow best practices to route and protect cabling to achieve the highest reliability and ease moves, adds, and changes. Reduce interference with ports by placing rack mounted horizontal cable managers like D-Rings and NetManagers above and below equipment or flat patch panels to route cables away from port. Use angled patch panels for high density patching. A fiber enclosure protects exposed fiber cable, termination management (e.g. fusion splice), and bend radius control. Select patch cord lengths that have minimal slack between connections. Use slack spools to take up slack. Bundle cables using Hook & Loop cable ties for easy cable additions and removal. Horizontal cable should have strain relief to prevent jack connection damage like a strain relief bar.

Grounding & Bonding

Grounding and bonding is essential for reliable communication and equipment protection. A solid copper grounding conductor is terminated to a lug and then landed on a grounding bar. Jumper cables are attached to equipment ground terminal and then routed to the grounding bar terminated with a lug that is attached to the grounding bar with a screw.

Power

Reliable power is achieved with redundant power sources via UPS or dual, independent power lines to a Power Outlet Unit (POU). The POU should have a current rating and outlets sized to support current and future equipment. POUs can also come with power and environmental monitoring to provide critical alerts.

Identification

Clear and intuitive identification eases installation along with moves, adds, and changes. This includes labeling cables on both ends following TIA-606-B standards. Color coding such as cables, color bands, and labels can be used to identify VLANs, areas, and media type.

Network Monitoring

IntraVUE[™] real-time industrial network monitoring software for assessment and troubleshoot. 128 node license: SNMS-0128

