MOD HUB series

*A Line of Modular Active Hubs for ARCNET®
Local Area Networks*

Description

The MOD HUB series of modular hubs is the latest in hub design technology from Contemporary Controls. These 16- and 48-port hubs provide the ultimate in reliability and flexibility for cabling ARCNET networks with star configurations. The MOD HUB series can also link bus topologies by connecting the hub to one end of each bus segment.

MODHUB-16F 4-slot enclosure supports up to four expansions modules.

Reliable design for worry-free operation. The hub uses low-power, low-heat CMOS components; high-efficiency LED lights; plus, a unique cooling system inherent in the design. The hub also offers network diagnostic capability using LED indicators.

LEDs aid in troubleshooting. LEDs at each hub port identify network traffic and assist in isolating network problems while other LEDs monitor proper hub operation. An additional LED identifies when network reconfigurations occur.

Benefits

- Compatible with the baseband ARCNET network
- Compatible with all of Contemporary Controls' network interface modules (NIMs)
- Supports up to 48 ports in four-port increments
- Two sizes of enclosures: 16 and 48 ports
- Offers easy expansion with plug-in modules
- Mixes coaxial, twisted-pair and glass fiber optic cable in one hub
- Isolates network faults with diagnostic LEDs
- LED indicator identifies reconfiguration of the network
- Minimizes hub jitter with precision delay line timing
- Activity LEDs for each port
- Provision for rack mounting
- Watch-dog timer prevents hub lockup
- Hub unlatch delay digitally controlled

Diverse enclosure styles are available. Using the rack-mounting kit, either one 48-port or two 16-port enclosures can be mounted in a standard 19" (48.3cm) rack requiring 7" (17.8cm) of vertical rack space. In addition, the MODHUB-16F is a flanged unit for wall mounting and the MODHUB-16F-N is a flanged unit in a NEMA 1 enclosure. For ease of operation, the NEMA 1 enclosure includes a power outlet mounted on the baseplate.

Flexibility is built-in. Order only the amount and type of connection you need. Several expansion modules exist, each supporting two, three, or four ports. Mix and match coaxial cable, twisted-pair wire, as well as glass fiber optic cable in the same hub.

Several combination expansion modules enable mixing of two cabling types on one module. Expansion modules reside in either a 16-port enclosure (four slots) or a 48-port (twelve slots) enclosure. Ports can be easily added in the field with expansion modules.

MODHUB-16 and MODHUB-48 can be used with network interface modules to facilitate fast, reliable communication between networked devices.

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Active Hub Modular

Specifications

Environmental

Operating temperature:	0°C to +60°C
Storage temperature:	-40°C to +85°C

Electrical

	MODHUB-16 series
Input voltage:	100VAC to 240VAC (+/- 10%)
Input current:	0.5 amps max
Input frequency:	47 Hz to 63 Hz
Input fuse(s)[1]:	1 amp slo blo 5mm x 20mm
	MODHUB-48 series
Input voltage:	100VAC to 240VAC (+/- 10%)
Input current:	1.0 amps max
Input frequency:	47 Hz to 63 Hz
Input fuse(s)[1]:	1 amp slo blo 5mm x 20mm

[1] All "E" models are equipped with two fuses and a continental Europe power cord.
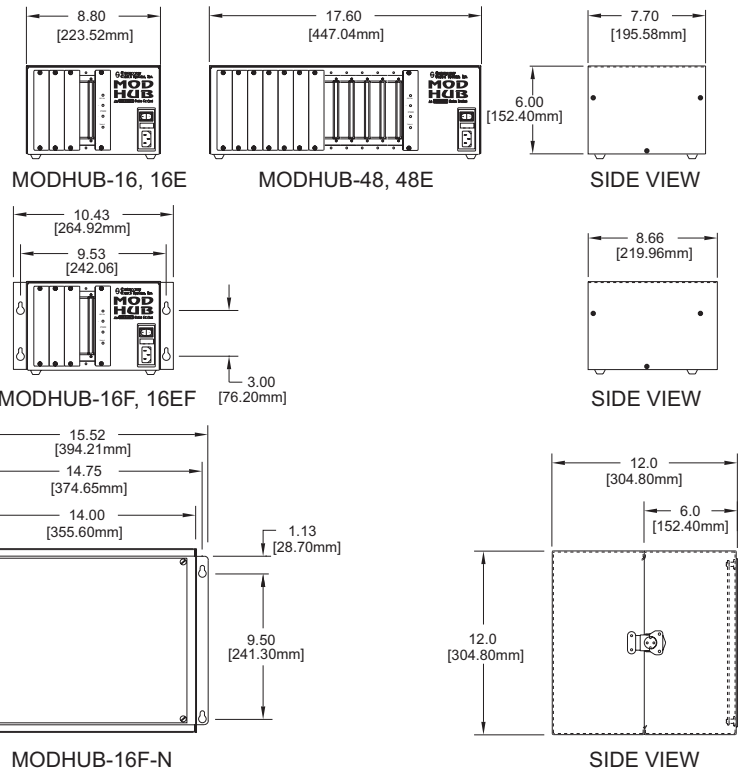
Regulatory Compliance

UL 1950 listed

cUL listed per CSA 22.2 No. 950-95

IEC 950 classified

FCC Part 15 Class A

CE Mark

MODHUB-16, 16E — 8.80 [223.52mm]

MODHUB-48, 48E — 17.60 [447.04mm]

SIDE VIEW — 7.70 [195.58mm], 6.00 [152.40mm]

MODHUB-16F, 16EF — 10.43 [264.92mm], 9.53 [242.06], 3.00 [76.20mm]

SIDE VIEW — 8.66 [219.96mm]

MODHUB-16F-N — 15.52 [394.21mm], 14.75 [374.65mm], 14.00 [355.60mm], 1.13 [28.70mm], 9.50 [241.30mm]

SIDE VIEW — 12.0 [304.80mm], 6.0 [152.40mm], 12.0 [304.80mm]

Ordering Information

First, order the MOD HUB enclosure size you need, allowing for 25% growth. Then, choose the particular mix of expansion modules that will fill the enclosure. Refer to the EXP data sheet for detailed information.

Model	Description
MODHUB-16	16-pt. powered card cage (120V 50/60 Hz)
MODHUB-16E	16-pt. powered card cage (240V 50/60 Hz)
MODHUB-16F	16-pt. powered card cage flange mounted (120V 50/60 Hz)
MODHUB-16EF	16-pt. powered card cage flange mounted (240V 50/60 Hz)
MODHUB-16F-N	16-pt. powered card cage flange mounted NEMA 1 enclosure (120V 50/60 Hz)
MODHUB-48	48-pt. powered card cage (120V 50/60 Hz)
MODHUB-48E	48-pt. powered card cage (240V 50/60 Hz)
MTG-RAK	MODHUB rack-mounting kit

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