



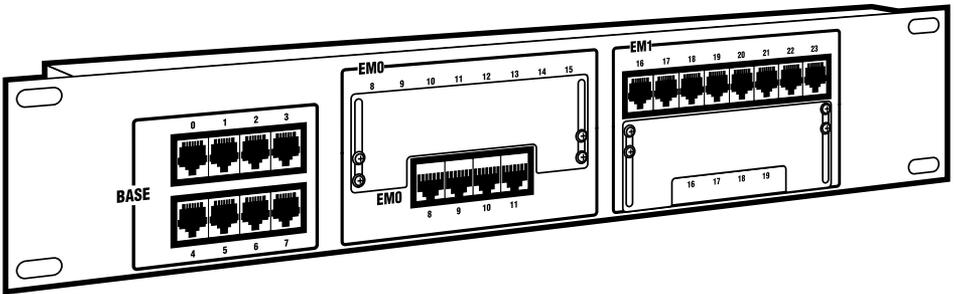
Assembly Number: VNMSC0M1A

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Distribution Panel for Cisco High-Density Analog and Digital Extension Module for Voice and Fax



**CUSTOMER
SUPPORT
INFORMATION**

Order toll-free in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
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TRADEMARKS USED IN THIS MANUAL

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Specifications

Approvals: Conforms to ANSI/UL® STD 60950-1; CE; S008; Certified to CAN/CSA STD C22.2 NO 60950-1

Connectors: (8) RJ-11 BASE, numbered 0–7; (8) RJ-11 analog EM0, numbered 8–15; (8) RJ-11 analog EM1, numbered 16–23; (4) RJ-45 digital EM0, numbered 8–11; (4) RJ-45 digital EM1, numbered 16–19; (1) RJ-21 male on the back of the panel

Size: 3.5"H (2U) x 19"W x 1"D (8.9 x 48.3 x 2.5 cm)

Weight: 2.8 lb. (1.3 kg)

Pinning Specifications

<u>(1) Telco</u>	<u>(1) RJ-11</u>	<u>(1) Telco</u>	<u>(1) RJ-45</u>	<u>(2) RJ-11</u>
<u>Connector</u>	<u>Connector</u>	<u>Connector</u>	<u>Connector</u>	<u>Connectors</u>
13 (Ring)		93 (SX+)3 (Ring)		
26.....(Base 0)4 (Tip)		346 (SX-)4 (Tip) (EM0–8)		
		104 (SR+)3 (Ring)		
2.....(Base 1)3 (Ring)		355 (SR-) (RJ-45–8)4 (Tip) (EM0–9)		
274 (Tip)				
		113 (SX+)3 (Ring)		
33 (Ring)		366 (SX-)4 (Tip) (EM0–10)		
28.....(Base 2)4 (Tip)		124 (SR+)3 (Ring)		
		375 (SR-) (RJ-45–9)4 (Tip) (EM0–11)		
43 (Ring)				
29.....(Base 3)4 (Tip)		133 (SX+)3 (Ring)		
		386 (SX-)4 (Tip) (EM0–12)		
53 (Ring)		144 (SR+)3 (Ring)		
30.....(Base 4)4 (Tip)		395 (SR-) (RJ-45–10)4 (Tip) (EM0–13)		
63 (Ring)		153 (SX+)3 (Ring)		
31.....(Base 5)4 (Tip)		406 (SX-)4 (Tip) (EM0–14)		
		164 (SR+)3 (Ring)		
73 (Ring)		415 (SR-) (RJ-45–11)4 (Tip) (EM0–15)		
32.....(Base 6)4 (Tip)				

(continued on the next page)

DISTRIBUTION PANEL

<u>(1) Telco</u> <u>Connector</u>	<u>(1) RJ-11</u> <u>Connector</u>	<u>(1) Telco</u> <u>Connector</u>	<u>(1) RJ-45</u> <u>Connector</u>	<u>(2) RJ-11</u> <u>Connectors</u>
8	3 (Ring)	17	3 (SX+)	3 (Ring)
33.....(Base 7)	4 (Tip)	42	6 (SX-)	4 (Tip) (EM1-16)
		18	4 (SR+)	3 (Ring)
		43	5 (SR-) (RJ-45-16)	4 (Tip) (EM1-17)
		19	3 (SX+)	3 (Ring)
		44	6 (SX-)	4 (Tip) (EM1-18)
		20	4 (SR+)	3 (Ring)
		45	5 (SR-) (RJ-45-17)	4 (Tip) (EM1-19)
		21	3 (SX+)	3 (Ring)
		46	6 (SX-)	4 (Tip) (EM1-20)
		22	4 (SR+)	3 (Ring)
		47	5 (SR-) (RJ-45-18)	4 (Tip) (EM1-21)
		23	3 (SX+)	3 (Ring)
		48	6 (SX-)	4 (Tip) (EM1-22)
		24	4 (SR+)	3 (Ring)
		49	5 (SR-) (RJ-45-18)	4 (Tip) (EM1-23)

(Pins 25 and 50 on Telco are open.)

Overview

The Distribution Panel for Cisco High-Density Analog and Digital Extension Module for Voice and Fax distributes digital and analog signals between legacy analog phone systems and digital and/or Internet phones. It has six rows of RJ-11 or RJ-45 analog or digital connectors, for a total of 32 connectors. Slide the covers over 12 of the connectors. Use the remaining connectors that are not covered, including 8 connectors on the panel's left side.

You should have received (1) distribution panel, (4) 10-32 screws, (4) 12-24 screws, (1) grounding lug, (2) pan-head Phillips screws, (2) flat washers, (2) tooth washers, and this users' manual.

Installation

For safe operation, the patch panel first needs to be grounded. Follow these steps:

1. Strip one end of the 6 AWG copper ground wire to approximately 0.75" (1.9 cm).
2. Crimp the ground wire to the ground lug; use a crimping tool of the appropriate size.
3. Attach the ground lug to the patch panel using the two included pan-head screws with captive locking washers (the flat washers and tooth washers). Tighten the screws to a torque of 8 to 10 in.-lb. (0.9 to 1.1 N-m).
4. Connect the other end of the ground wire to a suitable grounding point at your site.

Then install the panel:

CAUTION

Do not plug the cables into the top and bottom rows of connectors on the panel's middle and right side at the same time. Sliding the mechanical door up or down prevents this from happening and guards the attached equipment from damage. You can use the panel's eight left-side connectors (both top and bottom rows) at the same time.

1. Place the panel at a level position on a rack or cabinet.
2. Using the supplied 10-32 or 12-24 screws, secure the panel to a 19" rack's rails.
3. Install the RJ-11 and RJ-45 patch cables in the connectors on the panel's front.
4. Connect a telco cable to the RJ-21 connector on the panel's back and the telco connector on the proper Cisco card (part number EVM-HD-8FXS/DID).
5. Route the cables, making sure that they are not tangled. (This will eliminate crosstalk and attenuation.)