RAYMAR TELENETICS

Alliance / Datalink Series

1608 PENRIL RACK ENCLOSURE
A Versatile Host Site Modem Mounting System for Housing Modems from 300 to 19,2000 BPS *and beyond*

KEY FEATURES

- Compatible with Penril rack-mount modems.
- Multiple power transformers provide fault tolerance
- Complies with EIA equipment cabinet specifications
- Accomodates both leased and dial-up telephone lines
- Option Card provides modular telephone line terminations
- Test/Busy option provides test and busy-out capabilities

COMPATIBILITY

The **Raymar-Telenetics** 1608 Penril Rack Enclosure is compatible with Penril rack-mount modems. The 1608 Rack Enclosure is a multiple modem mounting enclosure for housing up to eight Penril modems. The modems may be intermixed within the rack to allow various speeds and connection to both leased lines and/or the dial-up network.

MULTIPLE POWER TRANSFORMERS

The 1608 Rack Enclosure supplies low voltage AC power, RS-232C/D mating connectors, and telephone line connections to each modem card. Multiple power transormers provide fault tolerance to power transformer failures within the rack. Each power transformer supplies power to two modem cards within the rack. In the event a power transformer fails, only two modem cards will be inoperable, the remaining six modems will continue to function. A power ON/OFF switch is accessible from the rack front panel and a primary fuse protects the rack from an electrical short circuit. In addition, the power transformer's secondary windings are protected by pico-fuses located on the rack-mount modem cards. The power transformer assembly is modular and is removable from the front of the enclosure.

An optional -48VDC power supply is available for Telco Central Office environments. Additionally, 220 VAC operation is available for international applications.

COMPLIES WITH EIA EQUIPMENT CABINET SPECIFICATIONS

The 1608 Rack Enclosure dimensions comply with EIA specifications for mounting a 19" wide cabinet. Rack adapters allow mounting in a standard 23" telephone equipment cabinet. The rack occupies 10.5" of vertical cabinet spacing. Both the top and bottom of the enclosure are slotted for proper ventilation. A front panel locking bar secures the installed modems.

ACCOMODATES LEASED LINE AND DIAL-UP TERMINATIONS

Both dial-up and leased-line connections are accomodated by the 1608 Rack Enclosure. The standard rack configuration supports two Amphenol-type 25-pair connectors. The connector pinouts are similar to those offered by a USOC RJ-26X style termination. One connector is provided for dial-up (and dial backup) access while the other is available for private line terminations. The dial-up connector accomodates Tip and Ring, PR and PC, and MI and MIC connections. For dial-up use the configuration that is compatible with most dial-up security callback systems. The leased line connector accommodates transmit and receive pairs as well as the dial backup receive line for 2-call dial applications.

1608 PENRIL RACK ENCLOSURE

OPTION CARD PROVIDES MODULAR TELEPHONE LINE TERMINATIONS

For flexibility, the 1616 Rack Enclosure is available with two option cards for termination of telephone circuits. Both the leased and dial-up multiline termination connectors can be broken out into individual line terminations. The Dial Line Modular Jack Card breaks up the dial-up connector into eight individual RJ-45 type, 8-pin connector jacks, with a ninth 6-pin jack provided for a test line. The Leased Line Breakout Card breaks out the leased-line connector into 4-wire, screwdown, barrier strips for the leased-line connection, and eight 6-pin modular jacks for the receive line dial backup connections. A ninth 6-pin jack is also provided for a second test line (used for receive data in a 2-call dial backup mode).

TEST/BUSY OPTION

A Test/Busy Option Card is available with the 1608 Rack Enclosure to allow the user to busy out dial-up telephone lines from the rack's front panel. In addition, a test capability is provided to allow a test line(s) to be routed to one of any of the eight modems installed in the rack. The test lines are spare telephone lines connected into the rack enclosure upon suspicion of a faulty line, a user may route the test lines to the ailing circuit to verify the line failure, and to allow continued communication until the defective line is repaired.

ORDERING INFORMATION

MODEL	LENGTH	DESCRIPTION
PEN-1608-01	NA	1608 Penril Rack Enclosure, 117 VAC
PEN-1608-02	NA	1608 Penril Rack Enclosure, -48 VDC
PEN-1638-02	NA	Penril Rack Enclosure, 220 VAC, BABT
PEN-5500-01	NA	Dial-up Modular Jack Card
PEN-5501-01	NA	Leased Line Breakout Card
PEN-5502-04	NA	Test/Busy Card
PEN-5503-02	NA	23-inch Rack Adapters
PEN-5507-03	NA	Blank Panel Set, 4 ea.
PEN-5508R-06	NA	NetMux Factory Installed
PEN-5506R-16	NA	NetMux Upgrade Kit
PEN-5600-01	7'	Cable, 50-pin Connector to 50
-02	14	Wires for Connection from DL Rack
-03	25	Dial-up or Leased Line Connector to Punch Down Block (e.g., 668 block)
PEN-5601-01	7'	Cable, 50-pin to 50-pin, RJ-26X Compatible
-02	14	with MI and MIC Connections. Used for Dial
-03	25	or Leased Line Connectors. All Pins Wired.
PEN-5602-01	7'	Cable, 50-pin to 50-pin, RJ-21X Compatible.
-02	14	Tip and Ring Wired Only. Used for Dial-up
-03	25	Connection.
PEN-5603-01	7'	Cable, 50-pin to 50-pin, RJ-26X Compatible.
-02	14	Used for Dial-up Connection. MI and MIC are
-03	25	Not Wired
PEN-5604-01	7'	Cable, 6-pin to Spade Tips for Connection
-02	14	from 6-position Jack to Screw Down Terminal
-03	25	Blocks
PEN-5605-01	7'	Cable, 6-pin to 6-pin Modular for Connection
-02	14	from 6-position Jack to RJ-aa Connection
-03	25	Block
PEN-5606-01	7'	Cable, 8-pin to 6-pin Modular for Connection
-02	14	from Dial-line Modular Jack Card to RJ-11
-03	25	Connection Block
PEN-5607-01	7'	Cable, 8-pin to 8-pin Modular for Connection
-02	14	from Dial-line Modular Jack Card to RJ-45
-03	25	Connection Block
PEN-5608-01	7'	Cable, Spade Tip to Spade Tip for Connection
		from Leased Line Breakout Card to
		Screw Down Terminal Blocks.

Specifications subject to change without notice; confirm when ordering.

PRODUCT SPECIFICATIONS

COMPATIBILITY
Compatible with Penril Datalink 2400, 4800, 9600, rack-mount modems, Penril V.32, V.32M, V.32/14.4, V.32/14.4M, V.32/19.2, V.32/19.2M rack-mount modems. Modem types may be intermixed with limitations.

EIA specifications for 19-inch wide telephone equipment cabinet; can be easily adapted to fit 23-inch cabinet.

CAPACITY
Up to eight modems

INTERFACE
DTE: RS-232C/D DB-25 female connector for each modem
DIAL LINES: 50-pin male connector RJ-26X compatible
LEASED LINES: 50-pin male connector
Modular connectors or screw-down barrier strips available on optional add-on card(s).
50-pin male diagnostic connector.

REQUIREMENTS
LINE: Unconditioned four-wire or two-wire leased, or two-wire switched lines (one or two per slot)
POWER: 100 to 132 VAC, 60 Hz ± 5% (-48 VDC model also available; 187 to 264 VDC)
(220 VAC model also available 187 to 264 VAC)

POWER CONSUMPTION
21 watts (empty rack)

HEAT DISSIPATION
72 BTU/hr. (empty rack)

ENVIRONMENT
Ambient temperature: 0 to 50°C (32 to 122°F)
Storage temperature: -20 to 70°C (-4 to 158°F)
Relative humidity: 10 to 95% at 24°C (75°F) non-condensing

PHYSICAL SPECIFICATIONS
Width: 19 inches (48.2 cm)
Height: 10.5 inches (26.7 cm)
Depth: 10.75 inches (27.3 cm)
Weight: 15 pounds (7 kg) Approx

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Manufactured in the USA by RAYMAR-TELENETICS

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WARRANTY
Raymar-Telenetics manufactured products are warranted against defects in hardware material and workmanship under normal use for one (1) year from date of original retail purchase. Defective product will be repaired or replaced, determination to be made by Raymar-Telenetics, at no charge. Repaired or replaced products are warranted for 90 days or for original warranty period, whichever is longer. Warranty extends to original end-user only.