

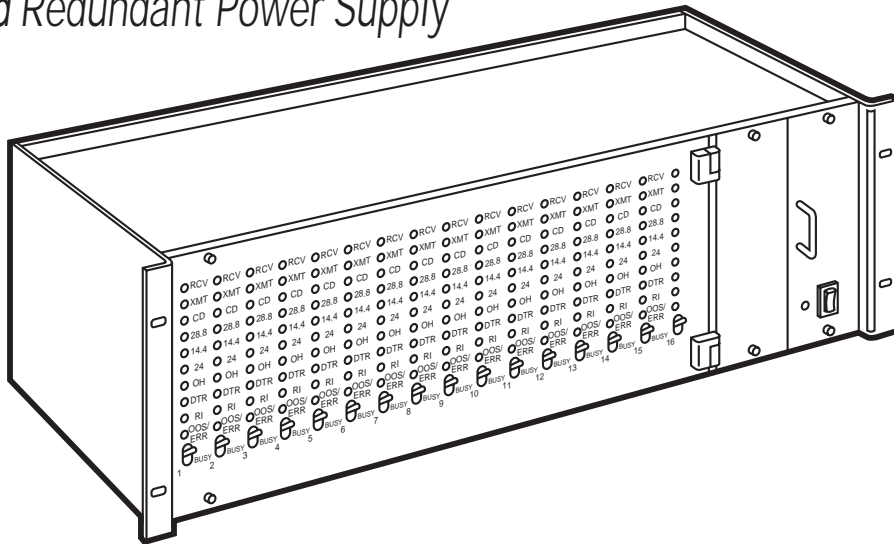


BLACK BOX[®]

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The World's Source for ConnectivitySM

Modem Rack, V.34 Modem Card,
and Redundant Power Supply



*Up to 16 powerhouse
modems in one hot-
swappable rack.*

Key Features

- ▶ *Save money, workspace, and time by centralizing your data-communications equipment.*
- ▶ *LED status indicators for each card show error connection, connect rate, and connection speed.*
- ▶ *Cards support data rates up to 33.6 kbps over dial-up lines and 2- or 4-wire leased lines (depending on model).*
- ▶ *Modem Rack features a redundant power-supply option.*
- ▶ *All are hot-swappable for easy installation, removal, or replacement.*

The Modem Rack houses up to 16 modem cards and one power supply in one centralized location.

The rack conveniently mounts in any industry-standard 19-inch equipment rack. Along with valuable work space, it saves you the expense of installing extra modems or cables. You can mount the rack in the same cabinet as your computer, or it can be enclosed in a separate cabinet of its own.

Specifically designed for V.34 modems, the rack provides the RS-232 serial, phone line, and power connections (located at the rear of the unit) for modem cards via a backplane interface. The cards slide into the rack and seat into their own backplane connector. The modem's gold edge connector is offset so that the modem cannot be incorrectly inserted.

The rack's data-port connectors are DB25 female connectors, which can be used for async or sync RS-232C/D

data transfer to a modem card. The rack also features an RJ-11 connector for each modem.

A front panel labels the LEDs on each card so that the connect rate, error correction, speed, ring indicator, and other call status indicators can be monitored.

There's also room for a redundant power supply (used to keep the system going even if the first power supply fails).

Not Just Any Card

You get everything you expect from an enhanced V.34 (33.6-kbps) modem. For example, it automatically adjusts to line conditions and the capabilities of the modem on the receiving end.

You not only get the highest possible speed with the modem card, but the most accurate error correction and most efficient data compression possible for each connection. For instance, when the modem encounters noisy line conditions, it automatically falls back to a

slower speed. When line conditions improve, its speed accelerates.

But more than that, it also includes additional support for dial backup and leased lines. Order the MD1600C for 2- and 4-wire leased-line applications, and the MD1601C for use over 2-wire lines.

With convenient DIP-switch settings, it's easy to configure the modem for optimal performance with AS/400.

The card supports Group 3 (V.29 for 9600/4800 bps) and V.17 (14.4-kbps) fax, and both sync and async equipment. What's more, it can be configured for a point-to-point network installation.

The card can also store up to 30 call-back numbers.

You also get flash memory for data pump and controller firmware updates, and UUCP spoofing for streamlined batch transfer throughputs.

Technically Speaking

The rack modems are generally used in a central-site computer environment, connected to a mini- or mainframe computer. In these installations, the main purpose of the modem is to automatically answer incoming calls from remote users.

After seating the modem card into one of the 16 slots on the rack, you simply connect an RS-232C cable to the DB25 female connector on the backplane of the rack. You can also connect your phone line directly to an RJ-11 connector on the rack's backplane.

The card also features:

- ITU-T V.42 LAP-M and MNP Classes 3 and 4 error correction;
- Automatic disabling of compression when transferring files that are already compressed;
- Serial-port data rates adjustable to 115.2 kbps;
- Autodial, redial, pulse (rotary), and Touch-Tone dial;
- Compatibility with the standard AT command set used by most communication programs.
- On-screen help menus;

- Nonvolatile memory for storing customized modem parameters and 10 phone numbers;
- Ability to respond to EIA TR.29 Class 2 fax commands;
- Support for Unix® to Unix UUCP Spoofing;
- Support for IBM® AS/400™ and System 3x environments.

You also get an array of circuit board controls via the modem card's 16 DIP switches. You can use the switches to configure options or set default values in the command mode. For instance, you can position the switches to echo modem responses, set the modem to operate at the highest efficiency level, select transmit clock source, and enable and disable various modes.

Or you can simply rely on the factory-default settings. They're based on the assumption that you'll use the modem card to dial up a remote installation where a call is automatically answered. Most communications-software packages have installation procedures of their own, and your package may call for certain modem DIP-switch settings.

Additional equipment you may need:

- RS-232 Cable.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Modem Rack with Power Supply.....	RM1600
Redundant Power Supply (Optional).....	PS1600
V.34 Rackmount Modem Card for 2-/4-Wire.....	MD1600C
V.32 Rackmount Modem Card for 2-Wire Only.....	MD1601C
ACCESSORY	ORDER CODE
RS-232 Cable, 10-ft. (3-m).....	ECM25C-0010
(Other lengths available. Call us!)	

Specifications

Modem Rack

Capacity — Holds up to 16 modems

Connectors — One 3-prong grounded receptacle for AC power cord; (16) Female DB25 data ports; (16) RJ-11 jacks

Size — 19"W x 7"H x 14.75"D (48 x 18 x 37.5 cm)

Weight —
Rack only: 12 lb. (5.4 kg);
Rack and one power supply: 21 lb. (9.66 kg)

Modem Card

Standards — ITU: V.34+; Bell: 103, 212A

Data Rates — 33.6K, 31.2K, 28.8K, 26.4K, 24K, 21.6K, 19.2K, 16.8K, 14.4K, 12K, 9.6K, 4.8K, 2.4K, 1.2K, and up to 300 bps

Data Compression — V.42 bis

Fax Speeds — 14.4, 9.6, 4.8 kbps

Fax Compatibility — V.17, Group III

Speed Conversion — Serial-port data rates adjustable to 300 bps, 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbps

Flow Control Options — XON/XOFF, Hardware RTS/CTS, ENQ/ACK, Unix-to-Unix Copy Protocol (UUCP) Spoofing

Integrity — V.42 LAPM and MNP Classes 3 and 4 error correction

Operation —
MD1600C: Full-duplex over 2- or 4-wire leased lines or dial-up lines;
MD1601C: Full-duplex over 2-wire leased lines or dial-up lines

Protocol — Async or sync

Compression — MNP Class 5 (2-to-1) and V.42bis (4-to-1)

Diagnostics — Power-On Self-Test, Local Analog Loop, Local Digital Loop, Remote Digital Loop

Indicators — RCV, XMT, CD, OH, DTR, RI, various data rates, OOS/ERR

Controls — Toggle switch for out of service (OOS); onboard DIP switches for various modem options

Power Requirements — 115 VAC, 60 Hz, 0.3 A

Power Consumption — Approximately 6 W

Temperature Tolerance — Operating: 32 to 120° F (0 to 50° C)

Size — 5.5"W x 10.5"H (14 x 26.7 cm)

Weight — 1.5 lb. (0.68 kg)

Power Supply

Input — 90 to 245 VAC

Output — 5 VDC and ±15 VDC regulated

Indicators — (1) LED indicates all outputs are good

Switches — (1) Power On/Off switch per power supply

Fan — DC fan for cool operation

Operating Temperature — 32 to 120° F (0 to 50° C)

Power — 70 W full load

Size — 7"H x 1.9"W x 12"D (17.8 x 4.8 x 30.5 cm)

Weight — 1 lb., 13 oz. (0.8 kg)