

ET104 Ethernet Terminal



WALL-MOUNT



TABLETOP



AN INDUSTRIAL STRENGTH *CLIENT* FOR THE SHOP-FLOOR

General The **ET104** Ethernet Workstation is available in either the wall mount or tabletop configuration and has an eight line by 40 char. per line alphanumeric display with a 24-position numeric keypad.

Network Operation The **ET104** would typically serve as a "DOS Client" to either a Novell or WIN-NT server on your local area network which can support 10BaseT Ethernet. In such capacity, the **ET104** can run software applications residing on the **ET104**'s flash disk or on the file server. This allows for the utilization of resources on the file server as well as other resources available on the LAN and beyond (print server, Internet gateway, etc). The **ET104**, when powered up, will automatically boot up ROM-resident DOS and if it is able to locate an "AUTOEXEC.BAT" file on the flash disk it will execute the .BAT file, which would include the Ethernet protocol initialization plus the execution of an application program stored either on local flash disk or on the file server. This program operates as the standard data collection program provided with the **ET104** or it can be a custom program developed by your VAR representative, or yourself. This program will typically collect data key-entered by the operator or data scanned

from bar codes or badge swipes, or by other input means which are optionally available for the **ET104**. The collected data can be stored locally in a flash disk file or it can be immediately written a record at-a-time to a file on the server. A typical data collection program can prompt the operator on the two-line display in full alphanumeric text, and then retrieve data from a number of input sources. With optional licensed software modules, the **ET104** can also be setup to be a "server" to the network and thereby allow other clients to have access to its data files, etc. To establish a network connection, protocol stacks are available for Novell NetWare (IPX protocol), or for Microsoft Windows NT (IPX or TCP/IP protocol).

Stand-alone Operation The **ET104** can serve as a stand-alone DOS based computer within the constraints of its abbreviated resources to provide an industry standard software run-time platform in a compact formfactor. Local resources such as the on-board flash disk can be used to store application related program and data files. The included RS232 serial port can be used to interface to local equipment such as a scale, gauge, or printer.



ET104 Specifications



The **EtherTerm 104 Workstation** is a member of the ET100 family of DOS based computer terminals. It features small size, low power, Ethernet connectivity, and is ideally suited for industrial data collection applications. The **ET104** terminal consists of a DOS Engine and a limited keyboard/display operator console. It can operate as either a stand alone computer or as a network client within the limits of the operator console.

Bar-Code Input The bar-code decoder input option allows one or two bar-code devices to be attached on the **ET104** terminal. Decoded input is treated just like keyboard entered data and can be configured to include an automatic Enter (<CR>) code. The **ET104** will automatically discriminate and decode Code 39, Code 128, Interleave 2/5, Codabar, and UPC/EAN symbologies. Available input devices include wands, slot readers, and wand emulating CCD or laser scanners. The Wall Mount version of the **ET104** can be supplied with an integral slot reader as one of the bar-code input devices.

Mag-Stripe Input The mag-stripe decoder input option allows either a single or dual track magnetic card reader to be attached. Either single Track #1 or Track #2 reader can be decoded and the input is treated just like keyboard entered data. If a dual track reader is installed Track #1 will be decoded first and if it fails Track #2 will be decoded.

Touch Memory Input The touch memory input option provides a receptacle for reading the touch memory (e.g. DS199x) devices. These devices are semiconductor memory chips provided in a small, hermetically sealed metal can and are used in harsh environments where mag-stripe cards or bar-code badges are not acceptable media. Decoded input is converted to ASCII equivalent character codes and is treated just like keyboard entered data.

Relay Output The **ET104** can be supplied with either two (dual) or four (quad) output relays that can be individually activated under software control. Each relay has a single "form A" contact rated at 10va (100vdc, 100ma.) maximum. Access to the contacts is via screw terminal blocks on the back of the unit.

Power Supply The **ET104** is powered by a 12vdc (12va rating) power adapter that plugs directly into a 120vac receptacle. Typical power consumption is less than 16 watts. Optional input devices (laser scanners, card readers, etc.) can increase the power consumption slightly. Alternate power supplies can be used by connecting them via the ET104 power jack.

ET104 Standard Features

- 386SX processor, 40Mhz
- BIOS in ROM
- ROM Resident DOS (MS-DOS Compatible Operating System)
- RAM Capacity - 4Meg.

- On-board Flash File Capacity - 4Meg.
- 10BaseT Ethernet Connectivity, (Novell IPX, or TCP/IP, specify one).
- Bar code input interface for wand, laser, CCD or other compatible scanner.
- Standard RS-232 COM port, 9-pin AT connector.
- Battery powered real-time clock (Y2K compliant).

Add-On Options

- Eight Line x 40 column LC Display (ET104Model)
- Display Backlight
- Wall Mount Enclosure (no slot reader)
- Wall mount enclosure with integral barcode slot reader (VL)
- Magnetic stripe card reader interface (Trk 2, Trk 1 optional)
- Touch Key reader interface
- Contact inputs (4) with built-in counters
- Relay control outputs (2 or 4)
- Panel Mounting Bezel
- NEMA Rated Industrial Enclosure
- Additional 4Meg. RAM capacity (8Meg. Total).
- Additional 4Meg. Flash File (8Meg. Total).
- Parallel printer port.
- Floppy disk port.
- IDE drive interface.

Physical Specifications

- *Dimensions (width / height / depth)*
 - Table-top Model - 175mm / 112mm / 170mm
 - Wall-mount Model - 220mm / 225mm / 92mm
 - NEMA Rated Model - 225mm / 292mm / 112mm
- *Weights*
 - Table-top Model - 1.2 Kg. (2.6 Lbs)
 - Wall-mount Model - 1.9 Kg. (4.2 Lbs)
 - NEMA Rated Model - 4.02 Kg. (8.8 Lbs)
- *Power Consumption* (does not include options such as backlight, modem, or bar code scanner, badge reader, etc.)
 - Standard Unit - 12 Watts
 - Expanded Unit - 16 Watts
- *Temperature Ranges*
 - Operating - 0C to 60C (32F to 120F)
 - Storage Temperature - -30C to 70C (-4F to 158F)

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