



FEATURES

- Fully Programmable
- 448k Flash EEPROM
- 512k Battery-Backed SRAM
- Comprehensive Built-in API for Rapid Development
- Program in "C" or Assembly Language on your PC
- Development Utilities Included for Assembly Programming
- "C" Library Available
- 2 Basic Compiler Available
- Up to 115.2k bps Communications
- Optional Battery-backed Real-Time Clock
- Three (3) Year Warranty

Height: 7.15 inches (181.6 mm)

Width: 4.10 inches (104.1 mm)

Depth: 1 inch (25.4 mm)

Weight: 8 ounces (227 grams)

Case: Rugged Cycolac® ABS

PDS

programmable terminal

Unit depicted with custom graphics

Looking for a fully programmable hand held terminal? The PDS is a rugged, full featured programmable terminal that is ideally suited to a variety of applications where a level of complexity above that found in simple ASCII terminals is required. A comprehensive Applications Program Interface (API) allows a programmer to access services provided by the Proprietary Operating System (OS). A variety of functions, from simple display manipulation to high level operations, are easily put under direct application control through the API. The PDS features 448k bytes of Flash EEPROM and 512k bytes of battery-backed static RAM. The PDS is programmable using either "C" or Assembly language on your PC. The battery powered model is supplied with a rechargeable battery, but commercially available alkaline batteries can also be used. Interface options, including RS-232, RS-422 or RS-485 are available.

Selling globally? The PDS offers display options that support a variety of optional character sets such as Latin 1 or European. What better way to give your products a competitive edge!

Two Technologies offers applications development services to our GEM Partners. Please be sure to contact us for more information.

Like all Two Technologies' products, the PDS is remarkably rugged. The case is molded from Cycolac ABS®, one of the most durable, chemical-resistant materials available on the market today. Securely framed and clamped into place, the keypad surface provides excellent splash resistance and prevents curling or peeling of the keypad overlay. Keypad layouts include 45, 30, and 20 keys, available with standard or custom graphics. Keypads are available in membrane or elastomeric material.

Tremendous value and loads of power...all in a great little package.



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DISPLAY

- Reflective/Transreflective Liquid Crystal Display
- LCD Twisted Nematic Display (standard)
- Extended Temperature Supertwist Backlit
- Extended Temperature Vacuum Fluorescent Display**
- 4 Line x 20 Characters
- Supertwist Display
- Supertwist Backlit (LED)
- Vacuum Fluorescent Display (VFD)**

KEYS & SWITCHES

- Membrane or Elastomeric
- Backlit (option)**
- Feedback: Tactile and audio
- 45-key (maximum), 30-key, or 20-key
- Phosphorescent (option)
- Extended U.S. ASCII Character Set
- Standard or Custom Layout
- Backlit Phosphorescent (option)**

INTERFACE

- RS-232, RS-422, RS-485, CMOS/TTL Level
- Data rates: 300 - 115,200 bps
- Connector: 6-pin female modular, optional permanent or custom cable configurations
- Handshake: 2 lines (CMOS/LSTTL, RS-232)
- Parity: Even, Odd, Mark, Space, Ignore, None

POWER

- 5 VDC Regulated +/- 5%
 - Some options require additional current (Example: Backlight adds 50 mA)
 - Nickel Metal Hydride rechargeable batteries (battery option only)
 - AA Alkaline batteries (6)***
 - 7.5-12 VDC Linear Regulator*
 - 9.5-28 VDC Switching Regulator
- *maximum voltage depends on current draw

ENVIRONMENT

- Nematic Displays
- Storage Temp: -20°C to +70°C
- Operating Temp: 0° to + 50°C
- Extended Temp: -20°C to +70°C
- Vacuum Fluorescent Displays
- Storage Temp: -20° to + 70°C
- Operating Temp: -20° to + 70°C
- Extended Temp: -40° to + 85°C
- Humidity 5-95% (non-condensing)

MEMORY

- 448k Flash EEPROM
- 512k Battery backed SRAM

APPLICATION DEVELOPMENT

- Program in "C", Assembly or 2 Basic
- Development Tools Available

FEATURES & OPTIONS

- 8051 Family Microcontroller @ 11.059MHz or 22.118MHz (software selectable)
- Battery option available
- Default settings
- Firmware
- E-Stop w/10 conductor cable (option)
- Display
- Case color
- Keypad graphics
- Logo Tag
- LED Indicators (option)
- I/O interface
- Real-Time Clock

CERTIFICATIONS

- FCC Class A
- CE****
- Safety Standard EN60950
- Electromagnetic Compatibility (EMC) EN50082-1
- CENELEC EMI Standards- EN55022, CISPR Class A

** not available with battery option

***not shipped with unit

****in standard configuration

