

# Apex III™

## Portable Data Collection Terminal



The **Apex III** hand held terminal brings to the market a rugged, ergonomic unit, designed to facilitate source data collection in a broad range of environments and applications.

The **Apex III** features include a full alphanumeric keypad, full graphic display (240 x 160 pixels) with user activated backlighting, a voice capable standard PC 8 ohm speaker, 8MB of Flash memory and 4MB of on-board RAM. The Apex III incorporates a 32 bit Microcontroller @ 33 MHz and is Symbol RF Spectrum 24 capable.

The **Apex III** supports Batch or RF operations via an internal type III PC Card port (capable of simultaneously supporting two type I or II devices). This port provides the user with numerous options for connectivity and memory expansion including, but not limited to, network interface adapters, high speed modems (both wired and wireless), Flash drives and RAM disks.

The **Apex III** is available with or without an integrated laser scanner. The integrated laser options include standard, long range, very high density or high visibility. An optional squeeze-lock connector provides tethered connectivity (2D Scanner, CCD, wand, etc.) in lieu of an integrated laser.

Data transmission to and from the **Apex III** can be accomplished via the infrared interface or the optional end cap Serial RS 232 Interface port.

The **Apex III** incorporates a DOS based operating system (ROM-DOS 7.1), thereby supporting DOS applications, graphic displays and existing DOS user software. An optional Windows based program generator can assist the user in implementing most data collection applications.

# Apex III™ Specifications Highlights

## Terminal

### Display

- Fully programmable graphics LCD
- Backlight with automatic timeout
- 240 x 160 pixel LCD matrix
- Standard format of 10 x 30 (default), Up to 20 x 30 characters (selectable)

### Keypad

- 56-key, full alphanumeric, non-glare
- 12 function keys (4 dedicated, 8 shifted)
- 1 keypad scan trigger
- 2 Enter Keys (right/left hand accessible)
- Large numeric keys

### Speaker

- Voice capable standard 8 ohm speaker
- Software-programmable for volume, duration, and pitch

### Operating System / BIOS

- Industry Standard – DataLight ROM DOS 7.1 Operating System
- Industry Standard - Phoenix Bios

### Microcontroller

- AMD Élan® AM486™ SC400 Low Power, 32-bit Microprocessor with System Logic, and 8 KByte L1 cache Memory, 33 mHz Clock Speed

### Memory

- FLASH: 8 MB (DOS, BIOS, applications, and data storage)
- RAM: 4 MB (for system operation and virtual-disk data storage)
- PC Card support for up to 64MB linear cards, 512 MB ATA cards)

### Communications

- IR serial data transfer in Dock (up to 115 kbps)
- RS-232 (optional end cap)
- X modem protocol provided between PDT & Dock for IR Communications
- High Speed UART(16550-compatible) supports up to 115 Kbps RS-232 serial data transfer

### PC Card

- User-accessible PC Card Slot (One - Type III or two-2 Type I or II, user accessible)

## Power Source

### Power Options

- Rechargeable 1400 mAh, NiMH battery pack, standard
- Apex III Dock (one Fast Charge Time Charging Bay in Dock for Spare Battery Charging)
- Apex III External Battery Charger, Desk or Wall mountable (Fast Charge Time 120 Minutes or less)
- Vehicle (12 VDC) Battery Charger (Fast Charge Time, 120 Minutes or less)

### Advanced Power Management (without PC Card)

- Sleep mode with programmable time-out: ~10 mA
- Doze mode: ~100 mA
- Operating mode: ~300 mA (depending on options, CPU speed, and application)
- SuperCap memory back-up
- Low battery indicator

## User Environment

### Environmental Specifications

- Water and Dust Resistant
- Operating Temperature: -10° C to +50° C (+14° F to +122° F)
- Storage Temperature: -20° C to +70° C (-4° F to +158° F)
- Drop: Multiple (x-4) 4-ft. to concrete (all four corners)
- Chemical and splash resistant

### Regulatory Approvals

- FCC Part 15 – Class B
- CDRH and IEC Laser Class 2
- CE



## Mechanical

### Construction

- Industrial, high-strength polycarbonate/ABS-blend plastic, U/L Rated 94V0

### Physical Dimensions

- Length: 8.4"
- Width: 3.8"
- Depth: 1.8"
- Weight (includes battery pack):
  - No laser 17.5oz
  - Laser/No Radio 18.4 oz.
  - Laser/Radio 20 oz.

## Input Connectivity

### Tethered Input Devices

- Handheld 5V lasers
- Handheld CCDs
- Wands
- I-Button Memory

### Integrated Laser Scanner

- Standard-range,
  - Display can be read while scanning
  - Scan rate: 36 ± 4 scans/sec
  - Indicators: Good read; Scan
  - Ambient light immunity:
    - Artificial: 450 ft-candles; (4,844 lux)
    - Sunlight: 8,000 ft-candles; (86,112 lux)
- Long-range, Very High Density and High Visibility (Option)

### Bar Code Symbolologies:

Auto discriminates between all symbolologies listed below:

- |                      |                              |
|----------------------|------------------------------|
| • Codabar            | • JAN                        |
| • Code 11            | • Interleaved 2 of 5         |
| • Code 39            | • Identicode 2 of 5          |
| • Code 39 full ASCII | • Industrial 2 of 5          |
| • Code 93            | • Matrix 2 of 5              |
| • Code 128           | • UPC A/E                    |
| • EAN-8/13           | • UPC/EAN/JAN 2/5 extensions |



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