

## APEX 3

### 3" (80mm) Powerful, Lightweight Portable Printer with Class 2 Bluetooth<sup>®</sup> as Standard

The newest addition to Extech's 3" receipt printer line is designed for today's mobile worker – powerful, rugged, lightweight and easy to use. As the first printer to include Class 2 Bluetooth<sup>®</sup> as part of the standard communication offerings, the Apex 3 changes the communication standards for portable printers. 3-Track Magnetic Card Reader, IrDA and Wi-Fi options, memory of 1MB (SRAM)/4MB (Flash) and Extech's Form Fiesta utility makes the Apex 3 the perfect receipt printer for Field Service, Route Accounting and Ticketing applications

#### ✓ Comfortable to Wear and Easy to Use

- Comfortable to wear all day with belt loop system or shoulder strap
- "Drop-in" paper load system
- Easy battery replacement
- 15 month warranty (including print head)
  - Optional Extended Warranty Available

#### ✓ Rugged

- Cycloc housing and rubber bumpers
  - Multiple drop tests to steel from 1.5 meters
- IEC68 product testing for operating temperature, storage temperature, humidity, shock and vibration
- IEC 60950 Product Safety Certification also means that workers can be confident using the printer during home visits
- Add the Extech IP54 carrying case for extra protection against dust and water

#### ✓ Powerful

- All the features supported by the Apex 3 are managed by a powerful ARM-7, 32 Bit microcontroller
- Firmware and resident fonts are integrated into a Flash based CPU
- 4MB Flash and 1MB SRAM memory is under direct user control to store logos, fonts, graphics and barcodes
- Powered by a high capacity, long-lasting Lithium-Ion battery cartridge (7.4V; 2200mAh)
  - Can be charged either internally or in an external battery charger

#### ✓ Easy to Integrate

- Multiple communication interfaces
  - Comes standard with Serial and Bluetooth<sup>®</sup> (Class 2)
  - Optional 3-Track Magnetic Card Reader, IrDA, and/or 802.11b/g
- MS-DOS and Windows compatible with full-speed handshake
- Print drivers available for Windows 95, 98, 2000, XP and Vista
- Print utilities available for most Mobile Operating Systems
- Emulations for many popular brands available.



#### Typical Vertical Markets

- Field Service
- Law Enforcement
- Utility
- Retail

#### Typical Applications

- Invoicing/Credit Card Receipts
- Route Accounting/ DSD
- Ticketing
- Remote POS Sale



**Line Busting:** Dramatically reduce customer waiting time and improve customer service - scan your customer's purchases and print out a receipt at a mobile checkout.



**Transportation:** Provide your passengers with a quick ticket or receipt for their bus, train or taxi fares at time of service.

## Print Mechanism:

|                                 |                     |
|---------------------------------|---------------------|
| <b>Printing Method:</b>         | Direct Thermal      |
| <b>Print Resolution:</b>        | 203 dpi/ 8 dots mm  |
| <b>Printing Width:</b>          | 2.83" (72mm)        |
| <b>Print Speed:</b>             | Up to 2" per second |
| <b>Paper-Out/TOF Detection:</b> | Photo Interrupter   |
| <b>Service Life:</b>            |                     |
| <b>Pulse:</b>                   | 100 million MCTF    |
| <b>Abrasion Resistance:</b>     | 50KM                |

## Operating Characteristics:

|                                 |   |
|---------------------------------|---|
| <b>Printing Mode:</b>           | Extech Line Print Mode<br>Page Printing Mode  |
| <b>Character Set:</b>           | ASCII International<br>PC Line Draw<br>Various Resident Fonts                             |
| <b>Int'l Character Sets:</b>    | Simplified & Traditional<br>Chinese, Hebrew, Arabic,<br>Polish, Greek, Cyrillic           |
| <b>Optional Character Sets:</b> | Downloadable<br>fixed-width fonts   |
| <b>Graphic Print:</b>           | Supports 8-bit graphic<br>printing, custom font, logo<br>downloading                      |
| <b>Barcode Symbologies:</b>     |   |
| <b>Linear:</b>                  | Codes 39, Code128 A/B/C,<br>UCC/EAN-128, Interleaved2<br>of 5, UPC/EAN/JAN and<br>Codabar |
| <b>2D:</b>                      | PDF417  |
| <b>Memory:</b>                  | 2MB SRAM, 4MB Flash   |
| <b>CPL:</b>                     | 12, 28, 36, 48, 57, 64, 72  |
| <b>Print Contrast:</b>          | Auto and user selectable  |

## Print Media:

|                                 |  |
|---------------------------------|--|
| <b>Media Type:</b>              | Direct Thermal Paper<br>(Standard is Kansaki P390) |
| <b>Paper Width:</b>             | 3.125" (80mm)                                      |
| <b>Max Roll Size:</b>           | 43' Length @ OD: 1.375"                            |
| <b>Roll Core ID:</b>            | 0.4"   |
| <b>Paper Rolls per Charge:</b>  | ~5   |
| <b>Total Length per Charge:</b> | ~235 ft (71.6m)                                    |

## Power:

|                                   |  |
|-----------------------------------|--|
| <b>Battery:</b>                   | Internal Rechargeable 2 cell<br>Lithium-Ion battery<br>(2200mAh)   |
| <b>Battery Life:</b>              | 80% of original capacity<br>after 300 cycles   |
| <b>Charging Time:</b>             | 180 Minutes  |
| <b>External Charging Options:</b> |  |
| <b>DC Power Pack:</b>             | 100V~240V AC<br>Input 10V/1.32 output  |
| <b>In-Vehicle Charger:</b>        | 10.6V~30C Cigarette<br>Lighter Adaptor   |
| <b>Power ON/OFF:</b>              | Power ON/OFF switch, or<br>by raising RTS input, or<br>sending a single<br>character through serial<br>input. Auto power down<br>timer can be set or disabled<br>through user application. |

## User Interface:

|                           |  |
|---------------------------|--|
| <b>Status indicators:</b> | 3 LEDs (2 are multi<br>functioning): Power/ERROR,<br>Charging, Ready/Fault |
| <b>User Switches:</b>     | 2 Switches - Power<br>(On/Off), Feed                                       |

## Mechanical:

|                      |  |
|----------------------|--|
| <b>Construction:</b> | Cyclac Enclosure with<br>Rubber Bumpers      |
| <b>Dimensions:</b>   | 6.1"Lx5"Wx2.27"H<br>(156L x127.2Wx 57.6H mm) |
| <b>Weight:</b>       | 14.9 oz (422g)                               |
| <b>Warranty:</b>     |  |
| <b>Standard:</b>     | 15 month standard                            |
| <b>Optional:</b>     | Up to 5 year programs at<br>extra charge     |

## Environmental Specifications:

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Operating Temp:</b> | 14° to 122°F (-10° to 50°C)           |
| <b>Storage Temp:</b>   | -4° to 140°F (-20° to 60°C)           |
| <b>Charging Temp:</b>  | 32° to 122°F (0° to 50°C)             |
| <b>Humidity:</b>       | 122°F (50°C) @ 85% RH for<br>96 Hours |
| <b>Drop:</b>           | Exceeds industry standard<br>for drop |

## Agency Approvals:

**CC: Part 15 Subpart B, Class B**  
**CE: EN60950**  
**CE: EN55022 Class B;**  
**CE: EN61000-3-2;**  
**CE: EN61000-3-3;**  
**CE: EN50024**  
**AS/NZ: 3548 Class B**  
**Complies with EMC Directive 89/336/EEC and Low Voltage Directive 73/23/EEC**  
**Conforms to ANSI/UL STD 60950 and Certified to CAN/CSA STD C22.2 No. 60950-00**  
**CB Certified, No. 60950-00**  
**GS Certified, #04US00384-1**  
**ETL Listed, control # 3046813**  
**IEC 68 certified**  
**IP54 Rated (with Environmental Case)**

## Software:

### Extech Configuration Utility includes:

- Font Download
- Bluetooth® Set-up
- Wi-Fi Set-Up
- Communications Parameter set-up
- Printer Custom Attribute Set-up
- Logo Download

### Form Fiesta Page Printing Utility Bootloader for Uploading Firmware



## The Apex 3 comes complete with the following:

- RS232
- Class 2 Bluetooth®
- Belt Loop System
- Battery
- 1 Roll of Media
- Universal Adaptor
- Cleaning Pen
- Quick Guide
- 15 month warranty

## Communication Options:

- IrDA
- Wi-Fi
- 3-Track Magnetic Card Reader

## Optional Accessories:

- 2-Bay Battery Charger
- IP54 Environmental Case
- Shoulder Strap w/Quick Clip
- 10.6V~30V In-Vehicle Adaptor
- Coiled Cable, Straight Plug (RJ to D9)

## Print Utilities available for:

- Windows CE
- Pocket PC
- WM5
- WM6
- Palm

## Compatible with the following SDKs:

- PrinterCE
- PrinterCE.NET CF
- PrintBoy
- Stevens Creek