

## APEX 4

### 4" (112mm) Portable Printer with USB and Class 2 Bluetooth<sup>®</sup> as Standard

The lightweight, rugged Apex 4 is the latest addition to Extech's Apex Series of printers. With USB and Class 2 Bluetooth<sup>®</sup> communication as standard, the Apex 4 completes the Apex printer series. With the Apex 4, Extech Instruments has expanded the variety of communication options to include Serial, IrDA, Class 1 Bluetooth, Wi-Fi and/or 3 Track Magnetic Card Reader. This versatile printer includes two proprietary software applications: Cassini Configuration Utility and Form Fiesta. Cassini allows the developer to set-up the printer in the solution quickly and easily. Form Fiesta is an intuitive form design tool that writes the code as you design the form. The Apex 4 is ideal for forms printing applications such as traffic citations, utility invoices, or boarding passes. Apex 4 prints quickly and efficiently with the simplicity of using Form Fiesta and many built-in features.

#### ✓ 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 programs available
- Built-in Bootloader for in-field firmware updates

#### ✓ Rugged & Lightweight

- Cyclocac 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 4 are managed by a powerful ARM-7, 32 Bit microcontroller
- Firmware and resident fonts are integrated into a Flash based CPU
- 4MB Flash and 2MB 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; 2250mAh)
  - Can be charged either internally or in an external battery charger

#### ✓ Easy to Integrate

- Multiple communication interfaces
  - Comes standard with USB and Bluetooth<sup>®</sup> (Class 2)
  - Optional RS232, IrDA, Class 1 Bluetooth<sup>®</sup>, Wi-Fi, and/or 3- Track Magnetic Card Reader
- 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 Applications:

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

#### Typical Vertical Markets:

- Field Service
- Law Enforcement
- Utility
- Retail
- Field Sales



**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:**

**Printing Method:** Direct Thermal  
**Print Resolution:** 203 dpi/ 8 dots mm  
**Printing Width:** 4.1" (104mm)  
**Print Speed:** Up to 3" per second  
**Paper-Out/TOF Detection:** Auto Black Mark Sensing w/presenter  
**Service Life:**  
**Pulse:** 100 million MCTF  
**Abrasion Resistance:** 50KM

**Operating Characteristics:**

**Printing Mode:** Extech Line Print Mode  
 Page Printing Mode  
**Character Set:** ASCII International  
 PC Line Draw  
 Various Resident Fonts  
**Int'l Character Sets:** Simplified & Traditional  
 Chinese, Hebrew, Arabic,  
 Polish, Greek, Cyrillic  
**Fonts:** 3 Resident Font tables  
 6 Downloadable Font tables  
 Bold Font and Proportional  
 Font  
**Graphic Print:** Supports 8-bit graphic  
 printing @ 203dpi  
**Barcode Symbolologies:**  
**Linear:** Codes 39, Code128 A/B/C,  
 UCC/EAN-128, Interleaved2  
 of 5, UPC/EAN/JAN and  
 Codabar  
**2D:** PDF417  
**Memory:** 2MB SRAM, 4MB Flash  
**CPL:** 41, 52, 69, 80, 83, 92, 104  
 (Applies to resident fonts &  
 downloadable fixed fonts)  
**Print Contrast:** Auto and user selectable

**Print Media:**

**Media Type:** Direct Thermal Paper  
 (Standard is Kansaki P390)  
**Paper Width:** 4.375" (112mm)  
**Max Roll Size:** 100' Length @ OD: 2"  
**Roll Core ID:** 0.4"  
**Paper Rolls per Charge:** ~5  
**Total Length per Charge:** ~235 ft (71.6m)

**Power:**

**Battery:** Internal Rechargeable 2 cell  
 Lithium-Ion battery  
 (2250mAh)  
**Battery Life:** 80% of original capacity  
 after 300 cycles  
**Charging Time:** 180 Minutes  
**External Charging Options:**  
**DC Power Pack:** 100V~240V AC  
 Input 10V/2.4 output  
**In-Vehicle Charger:** 10.8V~30V Input  
 10 V to 4A output Cigarette  
 Lighter Adaptor  
**Power ON/OFF:** Power ON/OFF switch  
 Auto power down timer  
 can be set or disable  
 through user application.

**User Interface:**

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

**Mechanical:**

**Construction:** Cycloc Enclosure with  
 Santoprene™ over molding  
**Dimensions:** 7.4"Lx6.5"Wx2.5"H  
 (191 Lx166Wx63H mm)  
**Weight:** 22 oz (648g)  
**Warranty:**  
**Standard:** 15 Months  
**Optional:** Up to 5 year programs at  
 extra charge

**Environmental Specifications:**

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

- Extech Bluetooth® Configuration utility
- Font Download
- Bluetooth® Set-up
- Wi-Fi Set-Up
- Communications Parameter set-up

**Form Fiesta Page Printing Utility**

**Printer Default Set-Up**

**Bootloader for Uploading Firmware**



**The Apex 4 comes complete with the following:**

- USB
- Class 2 Bluetooth®
- Shoulder Strap w/Quick Clip
- Battery
- 1 Roll of Media
- Universal Adaptor
- Cleaning Pen
- Quick Guide
- 15 month warranty

**Optional Communications:**

- Serial (in place of USB)
- IrDA
- Class 1 Bluetooth® (in place of Class 2 Bluetooth®)
- Wi-Fi
- 3-Track Magnetic Card Reader

**Optional Accessories:**

- 2-Bay Battery Charger
- IP54 Environmental Case
- Belt Loop System
- 10.8V~30V In-Vehicle Adaptor
- Coiled Cable, Straight Plug (RJ to D9)
- Paper Rolls (Case Quantity)

**Print Utilities available for:**

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

**Compatible with the following SDKs:**

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