APEX 4

4" (112mm) Portable Printer with USB and Class 2 Bluetooth® as Standard

The lightweight, rugged Apex 4 is the latest addition to Extech's Apex Series of printers. With USB and Class 2 Bluetooth® 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

- Cycolac 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 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; 2250mAh)
    - Can be charged either internally or in an external battery charger

✓ Easy to Integrate

- Multiple communication interfaces
    - Comes standard with USB and Bluetooth® (Class 2)
    - Optional RS232, IrDA, Class 1 Bluetooth®, 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 Symbologies:	
Linear:	Codes 39, Code128 A/B/C, UCC/EAN-128, Interleaved2 of 5, UPC/EAN/JAN and Codabar
2D:	PDF417
Memory:	1MB 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:	Cycolac 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