

# Apex Portable Receipt Printers



Apex 2

Apex 4

Apex 3

Light weight and Economical ■ ■ ■

## features at a glance ■ ■ ■

- **Lightweight and small:** The Apex printers are light enough to wear all day, everyday and small enough that they don't hinder movement.
- **Fast:** All features on the Apex printers are supported by a powerful Arm-7, 32-bit architecture RISC processor, making them as fast as printers costing almost twice as much.
- **User Controlled Memory:** All resident fonts and firmware are integrated into flash memory and are directly under your control.
- **Easy to Use:** Simplified LED lights indicate communication, charging and power status. Plus, easy drop-in paper loading and an external DC jack for easy charging.
- **More for you Money:** All Apex printers ship with a battery, power supply, belt clip (Apex 2 & 3) or shoulder strap (Apex 4) and sample media. They are also all equipped with a wireless option and RS232 or USB communications.
- **Options:** IrDA or Bluetooth connectivity and 3 Track Magnetic Card Reader
- **Compatibility:** MS DOS and Windows compatible. Print utilities and drivers available for most systems.
- **Graphics:** Supports the printing of graphics, 1D and 2D bar codes.
- **Endurance:** High Capacity Li-Ion battery can last a full day of printing receipts on a single battery charge.
- **Charging Options:** AC Adaptor for in-printer battery charging (comes with printer), 10.6-30V vehicle charger, 2 Bay battery charger.

The Apex family offers a light weight and economical solution for 2", 3" and 4" portable receipt printing that meets your needs without sacrificing on quality and performance. With today's tight budgets, the Apex series is an affordable way to meet the constantly changing requirements connected to field service, transportation, retail and law enforcement applications.

Designed with mobile workers in mind, Apex portable printers include a simple drop-in paper system that allows users to quickly replace paper rolls and a high capacity battery with easy charging options. Its light weight and compact design allows the Apex series to be worn comfortably on the belt or with a shoulder strap during long 12 hour shifts. These user-friendly features mean you can go through your busy day knowing your Apex printer will keep up with you.

The affordable Apex series offers you what you need without the extras found in other products. The Apex series come standard with wireless communication, fast print speed, ample memory and fast processing power that lets it keep pace with printers costing twice as much. The Apex series is also available with an optional magnetic strip card reader and Bluetooth or IrDA wireless communication.

## popular applications ■ ■ ■



- ### Mobile POS
- Transaction Receipts
  - Que Busting
  - Coupons
  - Rain checks



- ### Transportation
- Ticketing
  - Payment receipts



- ### Field Service
- Service Receipts
  - Pickup/Deliveries
  - Maintenance
  - Settlement Reports



- ### Public Services
- Meter Reading
  - Parking Tickets



### Did you know?

The paper you choose for your printer can significantly increase the life of your printer. Lesser quality paper can release more dust into the printer which can cause damage to your print mechanism and reduce the print quality of receipt. Datamax-O'Neil offers a wide range of high quality supplies for its printers including custom and stock receipts, ticketing media and cleaning products. When you choose Datamax-O'Neil, you receive a proven commitment to superior quality. Quality that results in performance and compatibility... Guaranteed.



## your benefits ■ ■ ■

**Affordability and Performance** – In today's tough economic times, affordability and quality are vital to business success. The Apex series has over-molded rubber bumpers for extra durability and has been validated in IEC68 certified labs for operating temperature, storage temperature, humidity, shock and vibration. Most importantly, the Apex series comes with Datamax-O'Neil's legendary customer service and support.



datamax • o'neil  
right by our customers.



Apex 2



Apex 3



Apex 4

**Communication Options**

Standard - Serial and one wireless option  
Wireless Options - Bluetooth or IrDA

Standard - Serial and one wireless option  
Wireless Options - Bluetooth or IrDA

Standard - USB and one wireless option  
Wireless Options - Bluetooth or IrDA

**Dimensions**

5.4" H x 4.1" W x 2.4" D  
135 x 103 x 60 mm

6.1" H x 5.0" W x 2.3" D  
156 x 127 x 58 mm

7.5" H x 6.5" W x 2.5" D  
191 x 166 x 63 mm

**Weight (with battery)**

14.7 oz (0.417 kg)

18.5 oz (0.524 kg)

26.5 oz (0.751 kg)

**Weight (with battery and paper roll)**

18.7 oz (0.530 kg)

26.5 oz (0.751 kg)

36.1 oz (1.023 kg)

**Media Type**

Direct thermal receipt paper: Standard, premium, heavy duty, long-life, image protect, hi-temp, all weather

Direct thermal receipt paper: Standard, premium, heavy duty, long-life, image protect, hi-temp, all weather

Direct thermal receipt paper: Standard, premium, heavy duty, long-life, image protect, hi-temp, all weather

**Maximum Print Width**

1.89" (48 mm)

2.83" (72 mm)

4.10" (104mm)

**Media Roll Width**

2.24" (57 mm)

3.14" (80 mm)

4.37" (111 mm)

**Maximum Media Roll Capacity (O.D.)**

1.50" (38.1 mm) maximum roll diameter

1.37" (34.9 mm) maximum roll diameter

2.00" (50.8 mm) maximum roll diameter

**Media I.D. Core**

0.4" (10.16 mm)

0.4" (10.16 mm)

0.4" (10.16 mm)

**Media Thickness**

0.002" to 0.004" (0.05mm to 0.10mm)

0.002" to 0.004" (0.05mm to 0.10mm)

0.002" to 0.006" (0.05mm to 0.15mm)

**Endurance (on a single battery charge)**

Prints approx. 2,640 - 6" long receipts

Prints approx. 1580 - 6" long receipts

Prints approx. 986 - 6" long receipts

**Memory**

4MB Flash / 2MB RAM

4MB Flash / 2MB RAM

4MB Flash / 2MB RAM

# product specifications ■ ■ ■

## physical characteristic ■ ■ ■

- Drop specification:
  - 4 ft. (1.2 m)

## user environment ■ ■ ■

- Operating temperatures:
  - 14°F to 122°F (-10°C to 50°C)
- Storage temperatures:
  - 4°F to 140°F (-20°C to 60°C)
- Charging temperatures:
  - 41°F to 104°F (5°C to 40°C)
- Relative humidity range:
  - 10% RH to 85% RH non-condensing
- ESD protection:
  - 8kV air gap, 4kV contact

## print technology ■ ■ ■

- Print head:
  - Direct Thermal
  - 203 dots per inch (8 dots per mm)
- Print mechanism speed:
  - 2 inches per second (51 mm per second) on Apex 2 and 3
  - 3 inches per second (76 mm per second) on Apex 4\*

## media ■ ■ ■

- Media type:
  - Direct thermal receipt paper (standard, premium, heavy duty, long-life, image protect, hi-temp, and all weather).
  - For optimum print quality and printer performance, use Certified Datamax-O'Neil supplies

## communication ■ ■ ■

- Serial: (Apex 2 and Apex 3 only)
  - RS232, up to 115.2 kbps
- USB:
  - 2.0 (Apex 4 and Apex 3 only)
- Bluetooth (Class 1):
  - Version 2.1
- IrDA: (option)
  - IrLPT v1.0
  - IrCOMM v1.0

## barcodes/fonts/graphics ■ ■ ■

- Linear: Codes 39, Code128 A/B/C, UCC/EAN-128, Interleaved2 of 5, UPC/EAN/JAN, Codabar, GSI Databar, Code 93
- 2D Symbolologies: PDF417, QR Code
- Optional characters:
  - Simplified & Traditional Chinese, Hebrew, Arabic, Polish, Greek, Cyrillic, Thai, Vietnamese, Hagul (Korean)
- Graphics:
  - Supports 8-bit graphic printing, custom font, logo downloading
- Standard fonts:
  - ASCII, International, PC Line draw
  - 12CPI, 16CPI, 19CPI, 21CPI, 24CPI, 13CPI rotated

## software ■ ■ ■

- Configuration Utility includes:
  - Firmware Upgrade
  - Font Download
  - Bluetooth® Set-up
  - Communications Parameter set-up
  - Printer Custom Attributes Set-up
  - Logo Download
- Drivers:
  - Windows, CE and Desktop
- Form Fiesta Page Printing Utility

## options ■ ■ ■

- Bluetooth or IrDA
- Integrated magnetic stripe card reader

## agency approval ■ ■ ■

Contact sales representative for the most current approval list

## warranty ■ ■ ■

- Printer\*: 1 year (including platen roller and installed options)
- Printhead\*: 1 year or 1,000,000 inches whichever comes first
- Contact sales representative for extended warranty options

*\* when used with approved supplies*



### Looking for a desktop label printer?

Datamax-O'Neil manufactures an extensive selection of desktop label printers that are ideal for manufacturing, warehouse, healthcare, ticketing, postal services and RFID labeling requirements. Competitive custom and standard media products are also available for all your label, receipt and ticketing needs.



**Included with each Apex 2 and Apex 3 printer:**

(1) Battery, (1) Roll of media, (1) Shoulder strap, and (1) AC adaptor.

**Included with each Apex 4 printer:**

(1) Battery, (1) Roll of media, (1) Shoulder strap, and (1) AC adaptor.

**recommended ■ ■ ■**



RJ11 Serial Cable



Battery Charger



IP54 Soft Cases



Belt Clip

<b>Cigarette Lighter Adapter</b>	Allows you to charge the printer from the vehicle cigarette lighter
<b>RJ11 Serial Cable</b>	DB9 F coiled right angle cable for connecting to a laptop or desktop computer
<b>USB Cable</b>	USB data cable with gold plated contacts
<b>Cleaning Cards</b>	Use of clean cards is recommended to extend the life of the printhead. (visit <a href="http://www.datamax-oneil.com/supplies">www.datamax-oneil.com/supplies</a> for more information)

**optional ■ ■ ■**

<b>Battery</b>	Spare Li-Ion battery
<b>Battery Charger</b>	2 Bay battery charger for charging Li-Ion Batteries (batteries not included)
<b>IP54 Soft Cases</b>	Protects your printer from environmental elements such as dust and moisture; meets IP54 compliance standards
<b>Belt Clip or Shoulder System</b>	Allows the user to comfortably carry the printer on the shoulder or on the belt; keeps the printer secure

**Light weight, Fast and Economical**

We recognize that not all applications require heavyweight, ultra rugged, drop-it-off-a-building or run-it-over-with-a-truck portable printers. The Apex series printer line is “just enough” to get the job done without slowing down or sacrificing accuracy. The Apex’s fast print speed, ample memory and fast processing power keeps pace with printers costing almost twice as much. The lightweight, compact design allows the printers to be worn comfortably through a complete shift. The durable housing and rubber over mold will endure the bumps and knocks of the typical workday. User friendly, the Apex printers have a simple drop-in paper system allowing users to quickly replace paper rolls and a high capacity battery that lasts through a 12 hour shift. Users can go through a busy day knowing that the Apex printers will keep up with them.



**to learn more, visit [www.datamax-oneil.com](http://www.datamax-oneil.com)**

Specifications subject to change without notice. Copyright 2011, Datamax-O’Neil (rev. 05.17.13)



**datamax • o’neil**  
right by our customers.

A Company



# Apex *i* Portable Receipt Printer

Made for



iPod



iPhone



iPad



Apex *4i*

## features at a glance ■ ■ ■

- **Flexibility** - In addition to supporting traditional hand held terminals, Apex *i* printers are iOS 5, iOS 6 & iOS 7 compatible and ready to go for today's BYOD (Bring Your Own Device) work environment that include iPhone, iPad and iPod.
- **Lightweight and small** - The Apex printers are light enough to wear all day, everyday and small enough that they don't hinder movement.
- **Fast** - All features on the Apex printers are supported by a powerful Arm-7, 32-bit architecture RISC processor, making them as fast as printers costing almost twice as much.
- **User Controlled Memory** - All resident fonts and firmware are integrated into flash memory and are directly under your control.
- **Easy to Use** - Simplified LED lights indicate communication, charging and power status. Plus, easy drop-in paper loading and an external DC jack for easy charging.
- **More for you Money** - All Apex printers ship with a battery, power supply, belt clip or shoulder strap and sample media. They are also all equipped with a wireless option and RS232 or USB communications.
- **Options** - 3 Track Magnetic Card Reader.
- **Compatibility** - MS DOS, Windows®, iOS and Android® compatible. Print utilities and drivers available for most systems.
- **Graphics** - Supports the printing of graphics, 1D and 2D bar codes.
- **Endurance** - High Capacity Li-Ion battery can last a full day of printing receipts on a single battery charge.
- **Charging Options** - AC Adaptor for in-printer battery charging (comes with printer), 10.6-30V vehicle charger, 2 Bay battery charger.

## Light weight and Economical ■ ■ ■

The Apex *i* series is an ideal light weight and economical solution for portable receipt printing needs in today's dynamic and open architecture environments. The new Apex *i* is compatible with Apple iPhone®, iPad® and iPod® using iOS 5, iOS 6 and iOS 7 and is easily connected via Bluetooth®. The Apex *i* meets your needs without sacrificing on quality and performance.

Designed for mobile workers, utilizing Apple® iOS devices, the Apex *i* portable printers include a simple drop-in paper system that allows users to quickly replace paper rolls and a high capacity battery with easy charging options. Its light weight and compact design allows the Apex series to be worn comfortably on the belt or with a shoulder strap during long 12 hour shifts. These user-friendly features mean you can go through your busy day knowing your Apex *i* printer will keep up with you.

The affordable Apex *i* offers you what you need without the extras found in other products. The Apex *i* comes standard with wireless communication, fast print speed, ample memory and fast processing power that lets it keep pace with printers costing twice as much. The Apex *i* is also available with an optional magnetic strip card reader.

## popular iOS-related applications ■ ■ ■



### Mobile POS

- Transaction Receipts
- Que Busting
- Coupons
- Rain checks



### Transportation

- Ticketing
- Payment receipts



### Field Service

- Service Receipts
- Pickup/Deliveries
- Maintenance
- Settlement Reports



### Public Services

- Meter Reading
- Parking Tickets



### Did you know?

A growing trend for organizations across the vertical spectrum is the ability to print payment receipts, tickets, proof of delivery, and other documentation from Apple®, Android™ and other leading smartphone and tablet platforms. The more efficient and streamlined the customer experience, the more likely you will retain and expand your customer base. According to leading industry analysts, the trend toward the adoption of mobile devices in retail and other related applications is increasing exponentially, and those that implement strategic growth plans for mobility within their workforces are likely to see more immediate and profitable results. The ability to add convenience, reduce wait times, and provide greater efficiency is no longer a luxury, but is an essential competitive element that today's dynamic and open architecture offers enterprises around the world.

## your benefits ■ ■ ■

**Affordability and Performance** - In today's tough economic times, affordability and quality are vital to business success. The Apex *i* series has over-molded rubber bumpers for extra durability and has been validated in IEC68 certified labs for operating temperature, storage temperature, humidity, shock and vibration. Most importantly, the Apex *i* series comes with Datamax-O'Neil's legendary customer service and support.



datamax · o'neil

right by our customers.



Apex 2/2i



Apex 3/3i



Apex 4/4i

**Communication Options**

Standard - RS232 with Bluetooth®

Standard - RS232 with Bluetooth®

Standard - USB or RS232 with Bluetooth®

**Dimensions**

5.4" H x 4.1" W x 2.4" D

135 x 103 x 60 mm

6.1" H x 5.0" W x 2.3" D

156 x 127 x 58 mm

7.5" H x 6.5" W x 2.5" D

191 x 166 x 63 mm

**Weight (with battery)**

14.7 oz (0.417 kg)

18.5 oz (0.524 kg)

26.5 oz (0.751 kg)

**Weight (with battery and paper roll)**

18.7 oz (0.530 kg)

26.5 oz (0.751 kg)

36.1 oz (1.023 kg)

**Media Type**

Direct thermal receipt paper: Standard, premium, heavy duty, long-life, image protect, hi-temp, all weather

Direct thermal receipt paper: Standard, premium, heavy duty, long-life, image protect, hi-temp, all weather

Direct thermal receipt paper: Standard, premium, heavy duty, long-life, image protect, hi-temp, all weather

**Maximum Print Width**

1.89" (48 mm)

2.83" (72 mm)

4.10" (104mm)

**Media Roll Width**

2.24" (57 mm)

3.14" (80 mm)

4.37" (111 mm)

**Maximum Media Roll Capacity (O.D.)**

1.50" (38.1 mm) maximum roll diameter

1.37" (34.9 mm) maximum roll diameter

2.00" (50.8 mm) maximum roll diameter

**Media I.D. Core**

0.4" (10.16 mm)

0.4" (10.16 mm)

0.4" (10.16 mm)

**Media Thickness**

0.002" to 0.004" (0.05mm to 0.10mm)

0.002" to 0.004" (0.05mm to 0.10mm)

0.002" to 0.006" (0.05mm to 0.15mm)

**Endurance (on a single battery charge)**

Prints approx. 2,640 - 6" long receipts

Prints approx. 1,580 - 6" long receipts

Prints approx. 986 - 6" long receipts

**Memory**

4MB Flash / 2MB RAM

4MB Flash / 2MB RAM

4MB Flash / 2MB RAM

# product specifications ■ ■ ■

## physical characteristic ■ ■ ■

- Drop specification:
  - 4 ft. (1.2 m)

## user environment ■ ■ ■

- Operating temperatures:
  - 14°F to 122°F (-10°C to 50°C)
- Storage temperatures:
  - 4°F to 140°F (-20°C to 60°C)
- Charging temperatures:
  - 41°F to 104°F (5°C to 40°C)
- Relative humidity range:
  - 10% RH to 85% RH non-condensing
- ESD protection:
  - 8kV air gap, 4kV contact

## print technology ■ ■ ■

- Print head:
  - Direct Thermal
  - 203 dots per inch (8 dots per mm)
- Print mechanism speed:
  - 2 inches per second (51 mm per second)

## media ■ ■ ■

- Media type:
  - Direct thermal receipt paper (standard, premium, heavy duty, long-life, image protect, hi-temp, and all weather).
  - For optimum print quality and printer performance, use Certified Datamax-O'Neil supplies

## communication ■ ■ ■

- Serial:
  - RS232, up to 115.2 kbps
- USB:
  - 2.0 (Apex 3 & 4 only)
- Bluetooth:
  - Version 2.1, Class 1

## barcodes/fonts/graphics ■ ■ ■

- Linear: Codes 39, Code128 A/B/C, UCC/EAN-128, Interleaved2 of 5, UPC/EAN/JAN, Codabar, GS1 Databar, Code 93
- 2D Symbolologies: PDF417
- QR Code
- Optional characters:
  - Simplified & Traditional Chinese, Hebrew, Arabic, Polish, Greek, Cyrillic, Thai, Vietnamese, Hanguk (Korean)
- Graphics:
  - Supports 8-bit graphic printing, custom font, logo downloading
- Standard fonts:
  - ASCII, International, PC Line draw
  - 12CPI, 16CPI, 19CPI, 21CPI, 24CPI, 13CPI rotated

## options ■ ■ ■

- Bluetooth
  - Version 2.1
- iOS Bluetooth
  - Version 2.1
- Integrated magnetic stripe card reader
- IrDA:
  - IrLPT v1.0
  - IrCOMM v1.0
- iOS 5, iOS 6 & iOS 7
- Android 2.2, 4.2

## agency approval ■ ■ ■

Contact sales representative for the most current approval list

## software ■ ■ ■

The Apex DO Toolkit application available from the Apple Store includes the following modules:

- Scan:
  - Discover and pair/bond to Apex iOS Bluetooth printers.
- Read and display printer status (chars in buffer, battery voltage, timer, temperature, print buffer remaining, firmware version, hardware version)
- Configure :
  - Font Download
  - Communications Parameter set-up
  - Printer Custom Attributes Set-up
  - Logo Download
- Presentation:
  - Print demo receipts, forms, logos, barcodes, and more.
- Drivers:
  - Windows, CE and Desktop
- Form Fiesta Page Printing Utility
- Bootloader for Uploading Firmware
- Info: General info about company and application.
- Software development kit:
  - Visual C++, Visual Basic
  - iOS, Android 2.2, 4.2, Blackberry

## warranty ■ ■ ■

- Printer\*: 1 year (including platen roller and installed options)
- Printhead\*: 1 year or 1,000,000 inches whichever comes first
- Contact sales representative for extended warranty options

*\* when used with approved supplies*



### Looking for a desktop label printer?

Datamax-O'Neil manufactures an extensive selection of desktop label printers that are ideal for manufacturing, warehouse, healthcare, ticketing, postal services and RFID labeling requirements. Competitive custom and standard media products are also available for all your label, receipt and ticketing needs.



\*Bluetooth is a registered trademark of Bluetooth SIG. \*Android is a registered trademark of Google, Inc. \*Windows is a registered trademark of Microsoft. \*Blackberry is a registered trademark of Research in Motion, Inc. "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance. iPad, iPhone, iPod are trademarks of Apple Inc., registered in the U.S. and other countries.

**Included with each Apex and Apex i printer:**

(1) battery, (1) roll of media, (1) belt clip (Apex 2 & 3) or shoulder strap (Apex 4), and (1) AC adaptor.

**recommended ■ ■ ■**



RJ11 Serial Cable



Battery Charger



IP54 Soft Cases



Shoulder Strap System

<b>Cigarette Lighter Adapter</b>	Allows you to charge the printer from the vehicle cigarette lighter
<b>RJ11 Serial Cable</b>	DB9 F coiled right angle cable for connecting to a laptop or desktop computer
<b>USB Cable</b>	USB data cable with gold plated contacts
<b>Cleaning Cards</b>	Use of clean cards is recommended to extend the life of the printhead. (visit <a href="http://www.datamax-oneil.com/supplies">www.datamax-oneil.com/supplies</a> for more information)

**optional ■ ■ ■**

<b>Battery</b>	Spare Li-Ion battery
<b>Battery Charger</b>	2 Bay battery charger for charging Li-Ion Batteries (batteries not included)
<b>IP54 Soft Cases</b>	Protects your printer from environmental elements such as dust and moisture; meets IP54 compliance standards
<b>Shoulder or Belt Strap System</b>	Allows the user to comfortably carry the printer on the shoulder or on the belt; keeps the printer secure

**Light weight, Fast and Economical**

We recognize that not all applications require heavyweight, ultra rugged, drop-it-off-a-building or run-it-over-with-a-truck portable printers. The Apex series printer line is “just enough” to get the job done without slowing down or sacrificing accuracy. The Apex’s fast print speed, ample memory and fast processing power keeps pace with printers costing almost twice as much. The lightweight, compact design allows the printers to be worn comfortably through a complete shift. The durable housing and rubber over mold will endure the bumps and knocks of the typical workday. User friendly, the Apex printers have a simple drop-in paper system allowing users to quickly replace paper rolls and a high capacity battery that lasts through a 12 hour shift. Users can go through a busy day knowing that the Apex printers will keep up with them.



**to learn more, visit [www.datamax-oneil.com](http://www.datamax-oneil.com)**

Specifications subject to change without notice. Copyright 2014, Datamax-O'Neil (8.6.14)



**datamax·o'neil**  
right by our customers.