

# Zebra® EM220II™ Mobile Printer



SEE MORE. DO MORE.



## Compact and affordable printing for use with your smartphone or tablet device.

Prints receipts on-the-go from Zebra's pocket-sized EM220II mobile printer using the latest smartphone and tablet devices. The EM220II, when used outdoors, supports connectivity via Bluetooth® 3.0 to all mobile device platforms including: Apple® iOS, Android™, Windows® Mobile and BlackBerry®. If your application is inside the four walls, the EM220II supports 802.11b/g for secure connections to existing networks. Quickly and easily print 2" receipts and keep your customers happy with this lightweight, simple to operate mobile printer.

Designed for simplified integration into your existing POS system, the affordable EM220II is ideal for mobile point-of-sale operations using the common ESC/POS language. With a battery capable of lasting an entire shift, the EM220II lets you provide a fast check-out and great service. An optional magnetic card reader

will securely process credit card payments, with the card never leaving your customer's sight, and all the data encrypted by the printer before it is transmitted via Bluetooth to the handheld device, or via 802.11b/g to an Access Point.

The EM220II is also ideal for on-board transportation ticketing, receipts for delivery of packages or services, table-side restaurant receipts, concessions purchases, and more.

The EM220II offers a variety of accessories and options, including a magnetic card reader. The printer is also compatible with sleds for barcode scanning from your iPod, iPhone and iPad. You can count on the EM220II mobile printer to be the dependable choice for high-quality printing at an economical price.

## Ideal for These Applications:

- **Retail & Hospitality**  
Mobile point-of-sale; simple receipt printing for events, amusement parks, concessions, restaurants
- **Transportation**  
On-board transportation ticketing
- **Postal**  
Delivery receipt of packages
- **Field Service**  
Printing of documents, such as receipts for repairs or installations

# LIGHTWEIGHT & AFFORDABLE, YET FEATURE-RICH

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**The EM220II mobile printer lets you print receipts wherever your customers may be via your smartphone or tablet device. Lightweight and unobtrusive, the EM220II lets users focus on their customers with simple operation and Zebra's well-known printer reliability.**

## Connectivity options for today's devices

- Compatible with the latest smartphone and tablet devices, such as Apple iPod, iPhone and iPad, as well as Android and Windows Mobile, via Bluetooth 3.0.
- Supports WLAN via 802.11 b/g, the most widely used and accepted standards at the 2.4GHz.
- Validated with industry-leading applications to verify interoperability and improved overall optimisation when used with validated terminals.

## Easy to wear...

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- Zebra's lightest mobile printer weighing in at a mere 230g (.53 lbs).
- Carry in the pocket or wear comfortably with a belt clip or shoulder strap for convenient and unobtrusive printing.
- Even your vehicle can easily wear the EM220II with the new vehicle cradle.

## ...and easy to use!

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- Accept credit card payment with one quick swipe with the optional magnetic card reader.
- One-button push for cover open and intuitive paper reloading make for fast media change-overs.

## Works as long as you do!

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- The EM220II runs off a long-life Lithium-ion battery for 8 hours of continuous operation.
- Four-step battery indicator lets you know well in advance of the need for a recharge.
- Provide peace of mind with an IP54 rating against liquid and dust when using the protective case.

## Genuine Zebra™ Supplies

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Ensure high-quality, crisp printing and ensure that your receipt and documents remain readable and intact for their entire life, by choosing genuine Zebra supplies.

Zebra offers:

- Both in-stock and custom-made receipt paper.
- Materials that:
  - Are tested and approved by the Zebra Supplies Research and Development Department.
  - Meet your application's durability, image quality and archival requirements, as well as your budget.
  - Can be custom pre-printed with your company logo, instructions, terms and conditions and other information, allowing you to maximise the functionality of your receipts and documents.

## ZebraCare™ Services

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Reduce the cost of printer downtime due to lost productivity and unbudgeted repair costs by selecting a ZebraCare Depot service agreement. ZebraCare service agreements allow you to:

- Plan and budget annual service needs.
- Reduce the soft costs associated with printers that are down and need repair, and increase uptime.
- Choose the service option right for your organisation.

# PRINT RECEIPTS ON DEMAND UTILISING YOUR SMARTPHONE AND TABLET DEVICES

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## Retail

Scan a basket of goods and print a barcoded receipt to reduce the amount of time a customer is at the checkout and improve the rate at which queues are processed.

## Hospitality

Offer the convenience of table-side payment in your restaurant. Sporting and concert venues, in addition to theme parks see shorter queues and more customers served with mobile payment and receipt printing.

## Transportation

An ideal solution for on-board ticketing or receipt printing on rail, bus, taxi or ferry lines.

## Postal

Drivers and mail carriers can offer fast receipts for delivery of packages or other goods and services provided.

## Field Service

The EM220II lets you print a receipt or offer your customers documentation of services rendered, estimates, parts and warranty information, and service reminders.

## Battery Charging Options

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The EM220II offers a variety of charging options to meet your specific needs. Charge in-house with a single or four bay docking cradle or battery charger. For on-the-go charging, use the vehicle charging cable with cigarette lighter adapter. Spare batteries are also available.

## Accessories for Wearing

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Keep your hands free with the many choices for wearing the lightweight EM220II. Options include shoulder straps, belt clips, belt straps and a durability-enhancing case that is IP54 rated. Taking the EM220II with you on the road? Consider the vehicle holder.

# SPECIFICATIONS AT A GLANCE\*

## Printer Name

EM220II

## Standard Features

- Direct thermal printing of bar codes, text and graphics
- ESC/POS programming language
- Resident fonts
- 200 MHz 32-bit ARM processor
- USB, Serial port
- 1.2 AH Li-Ion battery
- Optical out of media sensing using fixed centre position sensor
- Tear bar for easy receipt dispensing
- Supports vertical and horizontal printing
- Printer can be used in any orientation
- Fixed media roll width
- "Clamshell" design for easy media loading
- Management: Mirror, SNMP, Web server (with customisable HTML pages), Wavelink Avalanche® [Future firmware update]
- Five LEDs as User Interface indicators
- 1.2m (4ft) drop to concrete

## Printer Specifications

### Resolution

203 dpi resolution (8 dots/mm)

### Memory

256 KB Flash supports downloadable programs, receipt formats, fonts, and graphics, 128 KB Receive Buffer

### Print width

48mm/1.89"

### Print length

Maximum: Continuous

### Print speed

Up to 90mm/3.5" per second

## Physical Characteristics

Width  
79.5mm/3.13"  
Height  
43.6mm/1.72"  
Length  
126.7mm/4.99"  
Weight  
230g/0.51 lb with battery

## Operating Characteristics

### Environment

- Operating temperature: 5°F /-15°C to 122°F/50°C
- Storage environment: -22°F/-30°C to 158°F/70°C
- Operating humidity: 10% to 90% non-condensing

### Agency approvals

- Emissions: FCC Part 15, Subpart B, EN55022 Class-B, EN60950, EN55024 and VCCI class B
- Susceptibility: EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, and EN61000-4-5
- Safety: CE, UL, CB, CS
- International marks: NOM, C-Tick, iDA, Anatel, NTC

## Communication and Interface Capabilities

- Bluetooth™ 3.0 + EDR
  - Security modes 1-4
  - Bluetooth printing from Apple devices (iOS5, iOS6)
- USB 1.1 Full Speed Interface (12 Mbps)
- Windows and WinCE SDK and Win PDA Utility (Win XP (32bit/64 bit)/WEPOS 2003 and 2008 Server, Win7 Win8, Vista
- Windows Driver: XP, WEPOS/2003 and 2008 Server, Win 7, Win8, Vista
- OPOS Driver: XP, WEPOS 2003 and 2008 Server, Win7 Win 8, Vista
- Android SDK and Utility (Android 2.2 and later)
- iOS SDK and Utility: iOS 3.13/ iPod Touch 2G and later
- Unified Mobile Utility: WinXP, WEPOS 2003 and 2008 Server, Vista, Win7, Win 8
- Net Configuration Tool
- Optional WLAN 802.11b/g radio with support for:
  - WEP, WPA-PSK, EAP
  - (802.1X )

## Media characteristics

### Max. roll size

40mm/1.57" O.D.

### Max. media width

58.0mm (+/-0.5mm)/2.28"( +/- 0.2")

### Thickness

0.024mm/6 mil to 0.039mm/10mil

### Media types

Direct thermal receipt paper, or UV-coated media. For optimum print quality and printer performance, use genuine Zebra supplies.

Made for



iPod



iPhone



iPad

## Fonts/Graphics/Symbologies

### Fonts and character sets

- Character Size: Font A: 12x24 Font B: 9x17 Font C: 9x24 KOR, CHN: 24x24
- Characters Per Line: Font A: 32 Font B, C: 42, KOR, CHN: 16
- Character Sets:
  - Alphanumeric: 95
  - Expanded Graphics: 128x33 page
  - International: 32

### Graphics

Supports user-defined fonts and graphics – including custom logos

### Barcode symbologies

- Linear barcodes: EAN-8, EAN-13, Code 39, Code 93, Code 128, ITF, Coda Bar, UPC-A, UPC-E
- Two-dimensional: PDF 417, Data Matrix, Maxi, QR Code

## Options and Accessories

- Spare Batteries (standard and with external contacts to be used with 4-Bay Docking Cradle)
- AC Adapter (included)
- Four Bay Docking Cradle
- Single Battery Cradle
- Vehicle Charging Cable (with cigarette lighter adapter)
- Quad Battery Charger
- Belt Strap (included)
- Belt Clip (optional)
- Shoulder Strap
- Case
- Durability Enhancing Case (IP54)
- Vehicle Holder
- USB cable, Serial Cable

### Optional Features

- WLAN 802.11b/g radio with support for:
  - WEP, WPA-PSK, EAP
  - (802.1X )
- Linerless printing (with silicone platen roller only) through CAG (Custom Application Group) request

## Validation Testing

The EM220II has been tested with industry-leading applications to verify interoperability and improve overall optimisation when with validated terminals. Zebra Independent Software Vendor (ISV) Partners create industry-leading software solutions to solve business problems. Zebra works closely with these ISVs to integrate printing and other capabilities of Zebra products. Zebra-validated applications can be found at [zebra.com/validation](http://zebra.com/validation).



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