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ZEBRA MOBILE LINE Economy Mobile™ (EM) 220 PRINTER SPECIFICATIONS

Specifications are provided for reference and are based on printer tests using Zebra brand supplies. Results may vary in actual application settings or when using other than recommended Zebra supplies. Zebra recommends always qualifying any application with thorough testing.

Standard Features

- Direct thermal printing
- 203 dpi print resolution (8 dots/mm)
- 2 MB Flash / 8 MB SRAM memory
- 7.4V, 1.2 Ah Li-Ion battery
- Serial/USB connection
- Tear strip for easy receipt dispensing
- Supports vertical or horizontal printing
- Open access design for easy loading
- Li-Ion charger and belt strap included with printer
- Tolerance of multiple drops up to 4' to concrete
- Sensors detects door, open, out of paper, pre-printed media alignment
- LEDs indicate connectivity and battery status

Optional Features

- Optional Bluetooth® v. 2.0 short range connectivity
- Single battery cradle to be used with charger
- Quad battery charger
- Replacement charger
- Leather case
- Spare battery

Software

- **Drivers**
 - ⇒ Win95/98/ME/2000/NT/XP/2003/Vista
 - ⇒ OPOS drivers
 - ⇒ SDK/WinCE 4.2, WinCE 5.0 WinCE 6.0

Printing Specifications

- 203 dpi resolution (8 dots/mm)
- Print speed: up to 3.15"/80 mm per second

Media Specifications

NOTE: For optimum print quality and printer performance, use of genuine Zebra Supplies is recommended.

	EM 220
Media Width	2.28" (+/- 0.2") / 58.0 mm (+/- .5mm)
Max. Print Width	2.0" / 50.8 mm
Max. Roll Length	40' with 3.2 mil paper
Core OD	18.5±0.5mm (0.728 +/-0.0196")
Label Roll OD Max.	1.57" / 39.9 mm
Max. Media Thickness	4 mil / 0.1016 mm

Printer Control Language

- Communicates in printable ASCII characters
- Compatible with mainframe, mini and PC hosts
- Downloadable objects include graphics

Bar Code Symbolologies & Specifications

- **Bar Code Symbolologies:** Codabar, ITF, UPC-A, UPC-E, Code 39, Code 93, Code 128, EAN 8, EAN 13, EAN 18
- **Two-dimensional Bar Codes:** PDF 417, MaxiCode, QR Code, Data Matrix

Font Specifications: 203 dpi (8 dots/mm)

- Character size: Font A: 12 x 24, Font B 9 x 24
- Characters per line: Font A: 32, Font B: 42,
- Character sets: Alphanumeric character: 95
- Extended character: 128 x 30 pages
- International character set support
 - ⇒ (KOR, CHN, JPN) - 128 x 20 pages,
 - International: 32.

Communications Specifications

- Communication interface: Serial/USB
- Wireless: Bluetooth v. 2.0.

Physical Specifications

	EM 220
Height	5.0" / 126.7 mm
Width	3.1" / 79.5 mm
Depth	1.7" / 43.6 mm
Weight	0.52 lbs. / .24 kg*

*Weight with battery and no media is provided.

Electrical Specifications

- Standard battery
⇒ 7.4 V, 1.2 Ah Li-Ion battery, rechargeable Li-Ion battery

Agency approvals

EMC & Safety Standards

- Europe: CE Mark: CE 0984, DEMKO GS: EN60950-1: 2001
- North America: FCC rules part 15C
- NRTL Safety Approval IEC60950-1:2001

Safety Standards: CB-scheme: IEC60950-1: 2001

CE Mark, EMC Directive 2004/108/EC, R&TTE Directive 95/5/EC, Radio Spectrum EN300328 v1.6.1

- Low Voltage Directive 2006/95/EC Safety: EN60950-1:2001

International Marks: UL, FCC, CE, GS, CCC, SRRC, NCC, CB, GOST-R, TELEC, SIG, PSI, C-Tick, OFTA, VCCI, IC, SIRIM, NOM, COFETEL, S-MARK, CNC, ANATEL, WPC, IDA, NTC license

Environmental Specifications

- Operating Temp. 14° F/-10° C to 122° F/50° C
- Relative humidity: 20% - 70% non-condensing

Preventative Maintenance

- **Cleaning:**
Zebra recommends cleaning the *Mobile Line* printer on a regular basis using standard Zebra printer parts and cleaning supplies. Consult your *User's Guide* for further details. The exterior is cleaned with a lint-free cloth, and if necessary, a mild detergent solution or desktop cleaner. Interior components are cleaned with alcohol or blown air to remove any particles.
- **Lubrication:**
All mechanical parts are self-lubricating and do not require additional lubrication.
- **Registration:**
Media registration and minimum label length are affected by media type and width, and print speed. Performance improves as these factors are optimized. Zebra recommends always qualifying any application with thorough testing.