

ZM400



Standard Features

- Thermal transfer and direct thermal operating modes (can only use one mode at a time)
- Die-cast aluminum base, frame, and printhead mechanism
- Metal media cover with large clear window

More Standard Features

- 16 MB DRAM, 8MB Flash
- **203dpi (8 dots/mm) printhead**
- RS-232C Serial Interface
- High Speed, IEEE 1284, Bi-Directional Parallel Interface
- USB 2.0
- Transmissive and reflective media sensors
- Multi-lingual backlit 240x128 pixel graphic display
- Color-coded operator cues
- RFID Ready
- 7 bitmapped and 1 scalable font (CG Triumvarate Bold Condensed)
- 32-bit processor
- Auto-calibration
- Auto detectable (90V - 265V) power supply
- Element Energy Equalizer™ (E3®) (for print head energy control)
- Real Time Clock
- Unicode™ - Compliant
- Quick change printhead and platen
- Charcoal gray form design (for improved smudge resistance)
- ZPL® or ZPLII® (Zebra Programming Language®)

Printer Specifications

Resolution: 203 dpi (8 dots/mm)

300 dpi (12 dots/mm)

600 dpi (23.5 dots/mm)

Memory

- 16 MB DRAM
- 8 MB Flash
- 64 MB Factory-Installed On-Board Optional Flash (optional)

Print width: 4.09" (104 mm)

Print length

- Length with 203 dpi: 157" (3,988 mm)
- Length with 300 dpi: 73" (1,854mm)
- Length with 600 dpi: 39" (991mm)

Print speed: 203 dpi

10" (254 mm)/sec

300 dpi

8" (203 mm)/sec

600dpi

4" (102 mm)/sec

Media sensors: Reflective, Transmissive

Media Characteristics

Maximum label and liner width

- 4.5" (114 mm) - tear & cutter
- 4.25" (108mm) - peel & rewind

Minimum label and liner width: 1.0" (25.4mm)

Maximum label and liner length: 39" (991mm)

Maximum roll diameter: 8" (203 mm)

Core diameter: 3" (76 mm)

Media thickness: 0.0023" (.058 mm) to 0.010" (0.25 mm)

Media types: black mark, continuous, die-cut, fanfold, notched, perforated, tag stock

Ribbon Characteristics

Outside diameter: 3.2" (81.3 mm)

Standard length: 1476' (450 m) or 984' (300 m)

Ratio: 3:1 media roll to ribbon ratio

Ribbon width: 2" (51 mm) to 4.33" (110 mm)

Ribbon: setup Ribbon wound ink-side out or ribbon wound ink-side in (configurable one or the other, but not both)

ID Core: 1.0" (25.4 mm)

Operating Characteristics

Operating temperature TT: Operating temperature: 40° F (5° C) to 104° F (40° C)

Thermal transfer DT: Operating temperature: 32° F (0° C) to 104° F (40° C)

Direct thermal Storage temperatures: -40° F (-40° C) to 140° F (60° C)

Operating humidity: 20-85% non-condensing R.H.

Storage humidity: 5-85% non-condensing R.H.

Electrical: Universal auto-detectable (PFC-compliant) power supply 90-265 VAC

Agency approvals

- IEC 60950-1 EN 55022 Class B
- EN 55024
- EN 61000-3-2
- EN 61000-3-3

Physical Characteristics

Width: 10.9" (278 mm)
Height: 13.3" (338 mm)
Depth: 18.7" (475 mm)
Weight: 32.4 lbs (15 kg)
Shipping weight: 49 lbs (22 kg)

Related Products

Options

- 300 dpi (12 dots/mm) printhead
- 600 dpi (23.5 dots/mm) printhead
- 64 MB Factory-Installed, On-Board Flash Memory (58 MB user available)
- Cutter with catch tray
- Value peel (front mount, passive peel option with no liner take-up)
- Peel with liner take-up
- Rewind, internally rewinds full label roll on three-inch core (comes with taller, non-standard printer base)
- Ribbon supply spindle for ribbon ink coated inside
- RFID Field Upgrade Kit - installed by an Authorized Service Provider or return to factory
- ZebraDesigner
- ZebraDesigner Pro
- ZebraDesigner for XML
- ZebraNet Bridge Enterprise
- XML-enabled printing
- Printhead conversion kits
- ZebraCare Extended Warranty
- European and Asian font sets
- APL-I/APL-D firmware (contact Zebra Development Services for additional details)
- ZebraNet Wireless Plus Print Server
- ZebraNet b/g Print Server

Communication and Interface Capabilities

- USB 2.0
- RS-232C serial port
- RS 232 to RS-422/485 serial port adaptor
- RS232 DB9 to DB25 adaptor
- High speed, IEEE 1284, bi-directional parallel interface
- ZebraNet 10/100 Print Server
- ZebraNet Wireless Plus Print Server
- ZebraNet b/g Print Server

Programming Languages

Core programming languages: ZPL, ZPL II, EPL, XML

Bar Codes/Symbologies

Linear Codabar

Code 11

Code 128 with subsets A/B/C and UCC case codes

Code 39

Code 93

EAN-13
EAN-8
Industrial 2-of-5
Interleaved 2-of-5
Logmars
MSI
Planet Code
Plessey
Postnet
RSS (reduced space symbology)
Standard 2-of-5
UPC and EAN 2 or 5 digit extensions
UPC-A
UPC-E
2-dimensional Aztec
Codablock
Code 49
Data Matrix
MaxiCode
QR Code
PDF417
MicroPDF417
RSS / GS1 DataBar family (12 barcodes) Fonts and Graphics

- Standard fonts: 7 bitmapped, 1 smooth scalable (CG Triumvirate Bold Condensed)
- Sets: IBM Code Page 850 International character set
- Optional European and Asian font sets
- Supports user-defined fonts and graphics, including custom logos
- ZPL II drawing commands, including boxes and lines

Kirk Fox



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