

# Monarch® 9855™ RFMP Multi-Protocol UHF RFID Printer/Encoder Product Specification



- Tabletop Printer/Encoder
- Encodes and Tests UHF RFID Chips
- Prints Bar Code Data
- Thermal Direct or Transfer
- On-demand or Continuous
- Prints Up to 12 ips
- Optional 300 dpi Printing

**Monarch®**  
Products and Services

## STANDARD FEATURES

### Dimensions:

Height - 13.0" (330 mm)  
Width - 12.5" (318 mm)  
Depth - 17.3" (439 mm)  
Weight - 34 lbs. (15.5 kg)

### Printing Method:

Thermal Direct or Thermal Transfer

### Printhead:

4.0" (102 mm/812 dots)  
203 dots/inch (8 dots/mm) OR  
300 dots/inch (11.8 dots/mm)  
Both printheads provide enhanced print quality

### Processor:

32-Bit 150 MHz Processor

### RFID Encoding Frequency:

860-960 MHz - Ultra High Frequency

### RFID Protocols:

EPC Class1 Gen2  
EPC Class 1 Gen1  
EM4122

### Memory:

4 MB Flash, 16 MB SDRAM  
Optional 16 MB; Configurable 8 MB  
RAM using these buffers:  
Transmit, Receive, Image, Format, Downloadable &  
Scalable Fonts

### Bar Code Types:

UPCA +2/+5, UPCE +2/+5, EAN8 +2/+5, EAN13 +2/+5, Interleaved 2 of 5, Extended Code 39, Codabar (NW7), Code 128, Code 93, MSI, PDF417, Postnet, MaxiCode, Code 16K, Quick Response (QR Code)

### Standard Fonts:

Bitmap - Standard, Reduced, Bold, OCRA-like, CG Triumvirate, and CG Triumvirate Bold  
TrueType® - EFF Swiss Bold  
Supports downloaded double-byte (TrueType and bitmap) fonts, allowing for Chinese, Japanese, and Korean character sets.

### Font Magnification:

1x to 7x  
4 to 250 pt. for scalable/TrueType fonts

### PC/Host Interface:

IEEE-1284 Parallel or Centronics Mode  
USB (Universal Serial Bus)  
RS 232 Serial at 2,400 BPS to 115,200 BPS  
Optional Ethernet, 802.11B wireless card.

### Printer Warranty:

One (1) year parts and labor.  
Full written warranty statement available on request.

### Printhead Warranty:

One (1) million inches or six (6) months, whichever occurs first.

### Optional Knife Warranty:

500,000 cuts or one (1) year, whichever occurs first.

## PERFORMANCE

### Power Source:

90-264 VAC with autoselect 50/60 Hz  
Optional 24 VDC regulator

### Print Speed:

2.5 ips (64 mm) - default for serial bar codes

4 ips (102 mm) - 203 dpi serial bar codes with narrow elements of 3 dots (or greater)  
6.0 ips (152 mm) - default for parallel bar codes  
8.0 ips (203 mm)  
10.0 ips (254 mm)  
12.0 ips (305 mm) only with 203 dpi printhead.

Member of



Interoperability Approved



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## SUPPLIES

Only Monarch-brand® supplies are recommended. Use non-perforated supplies in peel mode. High-energy (TUFFMARK®) supplies are available.

### Supply Types:

RFID Labels, RFID Tags, Labels, Tags and Receipt Paper.

### Standard Supply Sizes:

Width - 0.75" to 4.25" (19 mm to 102 mm)  
Length - 0.32" to 17.5" (8 mm to 445 mm)  
Supply Roll length is 7,874" (200 meters) - this varies on material thickness.

### Supply Thickness:

Labels - 5.5 to 10 mils  
Standard Tags - 5.5 to 10 mils  
RFID Tags - 7 to 14 mils  
Receipt Paper - 2.4 mils

### Maximum Print Area:

4.0" x 16.0" (102 mm x 406 mm) with the 203 dpi printhead

4.0" x 13.0" (102 mm x 330 mm) with the 300 dpi printhead

Larger images (up to 16 feet) can be printed using continuous supply and reallocating memory.

### Ribbon Sizes:

| Ribbon Widths | Use with max. supply width |
|---------------|----------------------------|
| 1.5" (38 mm)  | 1.2" (33 mm)               |
| 1.8" (46 mm)  | 1.5" (38 mm)               |
| 2.3" (58 mm)  | 2.0" (51 mm)               |
| 3.3" (84 mm)  | 3.0" (76 mm)               |
| 4.3" (110 mm) | 4.0" (102 mm)              |

TUFFMARK® 2.3" (58 mm), 4.3" (110 mm), 2.0" (51 mm) and 4.0" (102 mm)

### Ribbon Length:

23,616" (600 meters)

### About Ribbons:

The width of the ribbon must be at least 0.3" (8 mm) greater than the supply width. Using a ribbon wider than your supply helps protect the printhead.

## ENVIRONMENT RANGES

### Operating Temperature:

Thermal Transfer: 40° to 95° F (4° to 35° C)  
Thermal Direct: 40° to 104° F (4° to 40° C)

### Storage:

15° to 120° F (-10° to 49° C)

### Humidity/Operating and Storage:

5% to 90% non-condensing

### Electrostatic Discharge and Air Quality:

Some problems with electronic equipment may occur in environments prone to static discharge or extreme dust conditions. Paxar suggests that you take precautions to minimize these problems.

## OPTIONS

- 926™ Knife
- 300 dpi printhead, 12 ips print speed
- Peel Mode with On-Demand Sensor
- Ethernet Print Server
- Dual 802.11b Wireless and Ethernet Print Server
- ADK Script Programming for special applications
- 16 MB Flash Memory expansion
- MonarchNet2™
- Monarch Smart Relay System
- Cart Ready
- XML for Oracle WMS Interface
- XML for SAP RFID AII Interface

## ACCESSORIES

- 935™ Rewind
- 938™ Verifier (Bar Code)
- 939™ Keyboard
- 939I™ Intelligent Keyboard

*In our ongoing effort to deliver the best technology, specifications are subject to change without notice.*

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