General Printer Specifications

General
Print Method: direct thermal
Print Speed: 10'' per sec. maximum
Resolution: 203 (8 dots/mm), 300 dpi (12 dots/mm) or 600 dpi (optional)
Controls: On/Off switch, Control panel with LEDs and LCD (not on all models)

Media Transport
Media Type: fanfolded ticket or label stock, media on a roll or single tickets
Ticket Thickness: .004" to .011"
Receipt Thickness: .002" to .008"
Ticket Width: 2.0" to 3.25"
Premium options: 1.0" to 2.0" or 2.0" to 4.0"
Receipt Width: 3.125" (80 mm)
Drive: Stepper motor controlled pinch roller
Positioning: optical detector senses black mark (ticket) or paper (receipt)
Ticket Separation: Integrated cutter; Manual tear-off; Burster assembly (Mag printers and other specials)

Interfaces
Standard: Serial, Parallel and USB (Lemur-C/Lemur-Z; Serial and USB)
Optional: Ethernet, Bluetooth & Wi-Fi
Note: New printers can be ordered from the factory with multiple interfaces.
Printers ordered with limited ports may contain additional nonoperational interface connectors

Protocols
Standard: FGL
Optional: PCL4, Pectabs, POS
Drivers: Windows, Mac and Linux

Approvals
Designed to meet: UL / cUL / FCC / CE / CCC / ENERGY STAR / RoHS

RFID (optional)
ISO14443, ISO15693, Others available upon request

Power Requirements
100-240 VAC, 50/60 Hz, 80W max
24 VDC, 100W max

Power Consumption
Standby: 5W
Normal printing: 34W

Environmental
Operating Temperature: 0 to 45ºC
Relative Humidity: 10% to 90%
Storage Temperature: -40 to 70ºC above specs without condensation
Note: The above operating conditions are based on the use of 175 grams blank top coated tickets. The addition of ink to the face of the ticket may significantly reduce the maximum operating conditions (temperature/humidity). Other ticket materials may also restrict the operating conditions

Bar Codes
Most 1D and 2D codes including PDF417, DataMatrix, QR, Aztec

Full speed printing of picket fence and ladder bar codes

Fonts
Resident fonts: 16 bitmapped fonts (including Cyrillic and German characters) and Asian character sets (optional)
Downloadable fonts: HP Soft fonts / TrueType fonts
Downloadable RAM: up to 27MB
Downloadable Flash: optional up to 28MB, (Lemur-C/Lemur-Z; 12MB FLASH)

Graphics
FGL format, PCX format (1bit b/w), BMP format (1bit b/w)

Web Interface
Ethernet only
Real-time status monitor
Email notification

Projected Life
Cutter: 1 million cuts
Print Head: 60 km of paper or 100 million dot activations
MTBF: 20,000 hours (mean time between failures)
MTTR: 10 minutes (mean time to repair)

Warranty
Printer: 1 year, parts and labor
Print head: 90 days

Life time print head warranty when using exclusively our tickets.

Patents
BOCA has a patented head protection system that prevents premature head failure

Dot History
All printers utilize a multi-level dot history algorithm. This results in increased print speed, extended print head life and clearer print quality