

# BA420 Specifications Chart

## CUSTOMER BENEFITS

- Easy to use high performance industrial printer
- Increased productivity and efficiency thanks to high speed printing
- Lower maintenance cost with user tool-less replacement of the print head and platen
- Superior output quality with high resolution printing
- High productivity easily operated

## USE CASE

[Logistics]  
Shipping/Receiving label, Address label, Pallet label  
[Manufacturing]  
Carton label, Rating label, Picking label, Parts label  
[Retail]  
Multiple labels(Price label shelf tag), Receipt  
[Healthcare]  
Healthcare label

## PHYSICAL CHARACTERISTICS

Dimensions W: 9.4" (238 mm)  
D: 13.3" (339 mm)  
H: 13.1" (332 mm)  
Weight 26.5 lbs. (12 kg)

## PRINTER SPECIFICATIONS

Printer characteristics Direct thermal  
Thermal Transfer  
Resolution 203 dpi, 300 dpi  
Memory 128 MB (FROM)  
128 MB (SRAM)  
Print Width 203 dpi: 4.1" (104 mm)  
300 dpi: 4.2" (105.7 mm)  
Print Speed 2ips,4ips,6ips,8ips  
Sensor Reflective, Transmissible

## MEDIA CHARACTERISTICS

Print Length <Direct Thermal>  
Batch: 0.31" to 58.9" (8.0 to 1,498 mm)  
Cut: 0.63" to 58.9" (16.0 to 1,497 mm)  
Peel-off: 0.67" to 58.9" (17.0 to 1,498 mm)  
<Thermal Transfer>  
Batch: 0.51" to 58.9" (13 to 1,498 mm)  
Cut: 0.63" to 58.9" (16.0 to 1,497 mm)  
Peel-off: 0.67" to 58.9" (17.0 to 997 mm)  
Media Width <Direct Thermal>  
0.87" to 4.65" (22 to 118.0 mm)  
<Thermal Transfer>  
0.87" to 4.45" (22.0 to 114.0 mm)  
Media Thickness <Direct Thermal>  
Batch: 0.08 - 0.17 mm  
Cut mode: 0.08 - 0.17 mm  
Peel-off: 0.13 - 0.17 mm  
<Thermal Transfer>  
Batch: 0.1 - 0.17 mm  
Cut: 0.1 - 0.17 mm  
Peel-off:0.13 - 0.17 mm  
Max Outer Roller Diameter 6"(152.4 mm)  
Core Diameter 1.5" (38 mm), 1.57" (40 mm), 1.65" (42 mm),  
3" (76.2 mm)  
Media Type Vellum paper and labels, Matt coated paper,  
Glossy coated paper, Synthetic film, PET film,  
Polyimide

## RIBBON

Max Ribbon Roll Diameter 2.95" (75 mm)  
Standard Ribbon Length 450 m  
Ribbon Width 2.36" to 4.33" (60 to 110 mm)  
Ribbon Core Size 1.01" (25.8 +/-0.2mm)

## OPERATING CHARACTERISTICS

Operating Temp. Direct Thermal; 0°C to 40°C (32°F to 104°F)  
Thermal transfer: 5°C to 40°C (41°F to 104°F)  
Storage Temp. -40 degF (-40 degC) to 140 degF (60 degC)  
Operating Humidity 25 to 85 % RH, non-condensing  
Storage Humidity 10 to 90 % RH, non-condensing  
Electrical 100- 240 VAC, 50-60 Hz

## OPTIONS AND ACCESSORIES

Standard Interface USB 2.0 HS  
Ethernet 10/100 Base (IPv4 & IPv6)  
Bluetooth V2.1 EDR with MFi Certified  
NFC(for Bluetooth Paring)  
Option Cutter Module  
Peel-off Module  
Serial Interface Board  
Parallel Interface Board  
Wireless LAN Interface Board (802.11 a/b/g/h)  
UHF RFID Module\*(for EU, Korea, China, Australia)  
Expansion I/O Board  
Real Time Clock  
Fanfold Paper Guide

\*For China, not option but built-in model.

## FONT / GRAPHICS / SYMBOLOGIES

Fonts Bitmap, Outline, Writable characters, Optional True Type, OTF  
Barcodes EAN8, EAN13, JAN8, JAN13, UPC-A, UPC-E, NW-7, CODE 39, CODE 93, ITF, MSI, CODE128, EAN128, Industrial 2 of 5, Customer Barcode, POSTNET, RM4SCC, KIX CODE, RSS14, GTIN, GS1 DataBar, MATRIX 2 of 5 for NEC  
2D Codes Data Matrix, PDF417, QR Code, Maxi Code, Micro PDF417, CP Code, Aztec, GS1 Data Matrix

## FUNCTIONS

Programming Language TPCL, Basic Command Interpreter,  
Z Mode, S Mode  
Windows driver Windows 7/8/8.1/10 (32/64 bit),  
Windows Server 2008 R2, 2012/2012 R2, 2016

