# ZS-QT231R

## Industrial RFID Barcode Printer




- High-speed printing, speed up to 12ips
- Dual-antenna structure for precise positioning
- Supports UHF Anti-Metal Flexible Tags
- Support EAP protocol, Wi-Fi 5/Wi-Fi 6 module expansion
- Support GPIO expansion
- 2.4” LCD screen, all-metal structure



## Specifications

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| Product Model | ZS-QT231R |
| Resolution | 203dpi/300dpi |
| Printing method | Direct Thermal and Transfer Thermal |
| Max. print speed | 12ips (203dpi) , 8ips (300dpi) |
| Max. print width | 4.1"(104 mm) @ 203 dpi, 4.17"(106 mm) @ 300 dpi |
| Max. print length | 90"(2,286 mm) @ 203 dpi, 60"(1,524 mm) @ 300 dpi |
| Physical dimension | 10.16"(258 mm) x 11.30"(287 mm) x 15.98"(406 mm) |
| Weight | 28 lbs(12.5 kg) |
| Processor | 32-bit RISC CPU |
| Memory | 256 MB Flash / 256 MB RAM |
| Interface | Standard: Serial RS232, USB-B, USB Host,Bluetooth 5.0 and Ethernet 10/100Base T<br>Optional: Wi-Fi802.11a/b/g/n/ac/ax |
| WiFi security encryption | WEP 40/128bit, WPA Personal (PSK), WPA2 Personal (PSK) Enterprise (AES CCMP) |
| WiFi security authentication | EAP-TLS, EAP-PEAP |
| Power | Auto Range 100 ~ 240 AVC (48 ~ 62 Hz) |
| User interface | 1 power switch 8 operation buttons(menu,feed,pause,up,down,back,enter,calibration) 5LEDs with 3 colors<br>2.4" color TFT display |
| Sensors | Gap transmissive sensor<br>Black mark reflective sensor (position adjustable)<br>Head open sensor<br>Ribbon end sensor |
| Internal fonts | 8 resident expandable ZPL II bitmap fonts<br>Simplified Chinese, Traditional Chinese<br>Downloadable objects include graphics, scalable and bitmap fonts, label templates and formats IBM Code Page 850 international character sets are available in the fonts A, B, C, D, E, F, G and 0 through software control<br>Code Page 1250, 1251, 1252, 1253, 1254, 1255, 1256 Support with font 0 |
| Graphic formats | PCX,BMP |
| Barcode | 1D barcode: Code 11(USD-8), Interleaved 2 of 5, Code 39, Code 93, Planet Code, EAN-8, EAN-13, UPC-A, UPC-E,<br>Industrial 2 of 5, Standard 2 of 5, ANSI Codabar, LOGMARS, Plessey, Code 128, GS1 Databar<br>2D barcode: Aztec, PDF417, MicroPDF-417, UPS MaxiCode, Data Matrix, QR Code, TLC39 |
| Font and barcode rotation | 0, 90, 180, 270 degree |

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| Printer Language | ZPL-II, TSPL, DPL, EPL2 |
| Media type | Continuous label, gap paper, black mark paper, UHF RFID tag<br>Working frequency 860~928MHz，<br>Support ISO18000-6C(EPC CLASS1 G2) protocol |
| Media handling | Standard: Continuous, Tear-Off / Options: Peel-Off, Cut, and Rewind |
| Media width | Min 0.79"(20 mm)/ Max 4.7"(120 mm) |
| Media thickness | 0.003"(0.08 mm) to 0.059"(1.5 mm) |
| Media core diameter | 1.5"(38.1 mm),3.0"(76.2 mm) |
| Media max. roll diameter | 8.0"(200 mm) |
| Media length | Min.: Tear-Off 0.31"(8 mm)<br>Min.: Peel-Off 0.20"(5 mm), Cutter 1.0"(25.4 mm)<br>Max.: 90"(2,286 mm) @ 203dpi, 60"(1,524 mm) @ 300dpi |
| Ribbon type | Wax, Wax/Resin, Resin |
| Ribbon length | 1476.4 ft(450 m) |
| Ribbon core diameter | 1.0"(25.4 mm) |
| Ribbon width | Min 1.18"(30 mm)/ Max 4.33"(110 mm) |
| Environment condition | Operating Temperature: 41° to 122°F (5° to 50°C) (limitations based on selected media) /<br>Operating Humidity: 25 to 85% RH Non-Condensing<br>Storage Temperature: -40° to 140° F (-40° to 60° C) / Storage Humidity: Non-Condensing |
| Safety Certification | CCC,FCC,CE,CB,SRRC |
| Environmental concern | RoHS, WEEE |