Industrial Printer Positioning Guide

ZT220, ZT230, ZT411, ZT421, ZT510, ZT610, ZT620 Shared Key Features

Built to perform day in and day out in even the most demanding environments, Zebra's industrial printers provide all the features and capabilities you need to keep your operations running smoothly today—and for years to come.

These world-renowned workhorses represent the highest standards for performance and longevity across virtually every industrial application. So whether you're printing precision micro labels, labels with barcodes and graphics, hang tags, or encoding UHF RFID tags for general purpose or metal asset tracking, we've got you covered.

Plus, all of our industrial printers feature Zebra's Print DNA software powered by Link-OS®, the highest form of printer intelligence, for easier integration, maintenance and remote management.

- **ZT510 and ZT600 Series high-performance printers** are designed for 24/7 rugged reliability in the harshest conditions. Combining our legendary quality with a user-friendly, future-ready platform, these printers sport the most advanced feature set of any Zebra printers to date
- **ZT400 Series printers** provide outstanding durability and feature-rich capabilities for moderate-volume applications
- **ZT200 Series printers** are easy to use and provide a lower-cost solution for moderate-volume applications

Shared Series Overview	Model Differentiators		
VALUE ZT200 Series			
• Zebra's entry-level industrial printer • Ideal for light industrial and commercial environments • Compact footprint • Bifold door • Available in direct thermal or thermal transfer models • Quick, easy media changing with side-loading design and color-coded cues • Simple to maintain with toolless removal of platen and printhead • Print width of 4.09" (104 mm)	**ZT220**		• 4" simplified user interface with three-button keypad and bicolored LEDs for quick printer status • 300 m ribbon capacity • High-impact polymer cover
	ZT230		• Metal covered for added durability in harsher environments • Enhanced, icon-based LCD interface for flexibility and control • 450 m ribbon capacity for extended use between changes • Liner take-up option rewinds an 8" roll (includes peel option)
MID-RANGE ZT400 Series			
• Excellent for moderate-volume industrial applications • Standard USB 2.0, high-speed, RS-232 Serial, 10/100 Ethernet, Bluetooth® 4.1, Dual USB Host connectivity • Features advancements in print speed, registration and connectivity over the ZT200 Series • Field-installable RFID, communication and media-handling options • Two open communication slots for non-standard connectivity options • Optional RFID capabilities, including on-metal tagging* • 4.3-inch full-color touch display • Lighted media and ribbon paths for increased visibility • Quick, easy media changing with side-loading design and color-coded cues • Toolless removal of platen and print head • Bifold door	**ZT411**		• Print width of 4.09" (104 mm) • 203, 300 and 600 dpi printing • Available as a ZT411 RFID On-metal Tagging Solution* for tracking metal assets
	ZT421		• Print width up to 6.6" (168 mm) • 203 and 300 dpi printing
PREMIUM ZT510			
• 24/7 duty cycle • Designed to withstand the most challenging industrial environments • Field-installable media handling options • Two open communication slots for non-standard connectivity options • Basic feature set • Monochrome graphical display • Standard USB, Ethernet, Bluetooth® LE and Serial connectivity • Through media and ribbon loading	**ZT510**		• Print width up to 4.09" (104 mm) • 203 and 300 dpi printing
PREMIUM ZT600 SERIES			
• 24/7 duty cycle • Designed to withstand the most challenging industrial environments • Field-installable media handling options • Two open communication slots for non-standard connectivity options • Enhanced ease-of-use features • Standard color LCD interface or optional 4.3-inch full-color touch display • Optional RFID capabilities • Bifold door • Standard USB, Ethernet, Serial, Bluetooth and USB Host connectivity • Side-loading media and ribbon with color-coded cues and error indicators • Socketed printhead	**ZT610**		• Print width of 4.09" (104 mm) • 203, 300 and 600 dpi printing • Best-in-class registration tolerances for micro-label applications
	ZT620		• Print width up to 6.6" (168 mm) • 203, 300 dpi printing

*ZT411 only (not available on the 600 dpi model)

Compare Features To See Which Printer Best Suits Your Needs[1]

User Need	ZT220	ZT230	ZT411	ZT421	ZT510	ZT610	ZT620
Product Description	4" direct thermal or thermal transfer[2] industrial printer	4" direct thermal or thermal transfer[2] industrial printer	4" thermal transfer[2] industrial printer	6" thermal transfer[2] industrial printer	4" thermal transfer[2] industrial printer	4" thermal transfer[2] industrial printer	6" thermal transfer[2] industrial printer
Standard Features							
Memory (RAM)	128 MB DRAM (4 MB User Available)	128 MB DRAM (4 MB User Available)	256 MB DRAM (8 MB User Available)	256 MB DRAM (8 MB User Available)	512 MB SDRAM (32 MB User Available)	1 GB SDRAM (32 MB User Available)	1 GB SDRAM (32 MB User Available)
Memory (Flash)	128 MB Flash (58 MB User Available)	128 MB Flash (32 MB User Available)	512 MB Flash (64 MB User Available)	512 MB Flash (64 MB User Available)	2 GB Flash (512 MB User Available)	2 GB Flash (512 MB User Available)	2 GB Flash (512 MB User Available)
Standard Programming Languages	ZPL II® and EPL™[3]	ZPL II and EPL[3]	ZPL II and EPL[3]	ZPL II and EPL[3]	ZPL, ZPL II	ZPL, ZPL II	ZPL, ZPL II
Unicode Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Maximum Print Speed (Inches Per Second-IPS)	6 ips at 203 and 300 dpi	6 ips at 203 and 300 dpi	14 ips at 203 dpi 10 ips at 300 dpi 4 ips at 600 dpi	12 ips at 203 dpi 10 ips at 300 dpi	12 ips at 203 dpi	14 ips at 203 dpi 12 ips at 300 dpi 6 ips at 600 dpi	12 ips at 203 dpi 8 ips at 300 dpi
Resolution (Dots Per Inch-DPI)	203/300 dpi	203/300 dpi	203/300/600 dpi	203/300 dpi	203/300 dpi	203/300/600 dpi	203/300 dpi
Standard Connectivity	USB 2.0, Serial	USB 2.0, Serial	USB 2.0, high-speed, RS-232 Serial, 10/100 Ethernet, Bluetooth 4.1, Dual USB Host	USB 2.0, high-speed, RS-232 Serial, 10/100 Ethernet, Bluetooth 4.1, Dual USB Host	Serial, USB, Gigabit Ethernet, Bluetooth® LE	Serial, USB, Gigabit Ethernet, USB Host (2), Bluetooth® 4.0	Serial, USB, Gigabit Ethernet, USB Host (2), Bluetooth 4.0
User Display	Three-button keypad with bicolored status LEDs	LCD standard with bicolored status LEDs	4.3-inch full-color touch display	4.3-inch full-color touch display	Monochrome graphical LCD, status icons	Standard: Color, graphical LCD, status icons Optional: 4.3-inch, full-color touch display	Standard: Color, graphical LCD, status icons Optional: 4.3-inch, full-color touch display
Media Characteristics							
Media Width	0.75" (19.4 mm) to 4.50" (114 mm)	0.75" (19.4 mm) to 4.50" (114 mm)	Tear/Cutter: 1.00" (25.4 mm) to 4.50" (114 mm) Peel/Rewind: 1.00" (25.4 mm) to 4.25" (108 mm)	Tear/Cutter: 2.00" (51 mm) to 7.0" (178 mm) Peel/Rewind: 2.00" (51 mm) to 6.75" (171 mm)	Label and liner: 0.79" (20 mm) to 4.5" (114 mm)	Label and liner: 0.79" (20 mm) to 4.5" (114 mm)	Label and liner: 2.0" (51 mm) to 7.1" (180 mm)
Maximum Media Roll Size (Outside Dimension)	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core, 6.0" (152 mm) O.D. on a 1" (25 mm) I.D. core	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core, 6.0" (152 mm) O.D. on a 1" (25 mm) I.D. core	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core	8.0" (203 mm) O.D. on a 3" (76 mm) I.D. core
Maximum Ribbon Length	984' (300 m)	1476' (450 m)	1476' (450 m)	1476' (450 m)	1476' (450 m)	1476' (450 m)	1476' (450 m)
Physical Characteristics							
Construction	High-impact polymer	Metal	Metal	Metal	Metal	Metal	Metal
Additional Features							
Optional Connectivity	Parallel, 10/100 Ethernet, 802.11a/b/g/n wireless, one open communication slot	Parallel, 10/100 Ethernet, 802.11a/b/g/n wireless, one open communication slot	Dual band 802.11ac Wi-Fi and Bluetooth, Parallel (bi-directional interface), 10/100 Ethernet, IPv6[4] and applicator interface	Dual band 802.11ac Wi-Fi and Bluetooth, Parallel (bi-directional interface), 10/100 Ethernet, IPv6[4] and applicator interface	Parallel, 802.11a/c with Bluetooth 4.0, USB Host, IPv6[4], Gigabit Ethernet, two open communication slots	Parallel, 802.11a/c, Applicator Port, USB Host, IPv6[4], Gigabit Ethernet, two open communication slots	Parallel, 802.11a/c, Applicator Port, USB Host, IPv6[4], Gigabit Ethernet, two open communication slots
RFID Option	No	No	Yes; and optional ZT411 RFID On-metal Tagging Solution[5] for tracking metal assets	Yes	No	Yes	Yes

[1]Specifications subject to change without notice. [2]All thermal transfer printers can operate in direct thermal mode. [3]EPL available on 203 dpi model only.
[4]IPv6 requires Parallel Port. [5]ZT411 only (not available on the 600 dpi model).

ZEBRA

NA and Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
contact.apac@zebra.com

EMEA Headquarters
zebra.com/locations
contact.emea@zebra.com

Latin America Headquarters
+1 847 955 2283
la.contactme@zebra.com