



ZEBRA ZD SERIES

PERFORMANCE DESKTOP PRINTERS

Zebra is well known for their high performance thermal transfer label printers—The ZD Series brings that same quality, durability and usability to the workplace.

- High print quality
- Compact
- Fast print speeds
- Ease-of-use
- Affordable
- Application flexibility

Sleek, compact and user friendly in its design, Zebra's ZD Series features 3 models, each with a unique set of features to meet your needs and budget.

The key to its success is its simplicity—Zebra desktop series printers are incredibly easy to use with straightforward interfaces, the least complicated reloading system on the market and painless integration into existing software, systems and workflows

MODELS



Zebra ZD220

Reliable operation, quality construction, unsurpassed value

Basic Specs	Zebra ZD220
Print Method	Thermal Transfer or Direct Thermal
Print Resolution	Standard: 203 dpi
Print Speed	4 in/sec
Print Width	4.09 in



Zebra ZD421

A new level of ease of use, application flexibility, management simplicity and total cost of ownership

Basic Specs	Zebra ZD421
Print Method	Thermal Transfer or Direct Thermal
Print Resolution	Standard: 203 dpi Optional: 300 dpi
Print Speed	6 in/sec for 203 dpi printer 4 in/sec for 300 dpi printer
Print Width	4.09 in for 203 dpi printer 4.27 in for 300 dpi printer



Zebra ZD621

Maximum print quality, efficiency and manageability

Basic Specs	Zebra ZD621
Print Method	Thermal Transfer or Direct Thermal
Print Resolution	Standard: 203 dpi Optional: 300 dpi
Print Speed	8 in/sec for 203 dpi printer 6 in/sec for 300 dpi printer
Print Width	4.09 in for 203 dpi printer 4.27 in for 300 dpi printer

Zebra ZD220		
Standard Features		
Thermal Transfer or Direct Thermal print method		
ZPL and EPL programming languages		
Single LED status indicator		
Single button for feed/pause		
USB connectivity		
OpenACCESS™ for easy media loading		
Dual-wall frame construction		
ENERGY STAR qualified		
Physical Characteristics		
Dimension	Thermal Transfer:	10.5 in. L x 7.75 in. W x 7.5 in. H 267 mm L x 197 mm W x 191 mm H
	Direct Thermal:	8.6 in. L x 6.9 in. W x 5.9 in. H 220 mm L x 176 mm W x 151 mm H
Weight		2.5 lbs./1.1 kg
Printer Specifications		
Resolution		203 dpi/8 dots per mm
Memory		256 MB Flash; 128 MB SDRAM
Maximum Print Width		4.09 in./104 mm
Maximum Print Speed		4 in./102 mm per second
Media Sensors		Movable black mark sensor, limited range from center to left side Fixed off-center gap sensor
Firmware		ZPL II; EPL 2; XML
Media and Ribbon Characteristics		
Maximum Label Length		39.0 in./991 mm
Media Width		1.00 in./25.4 mm to 4.4 in./112 mm
Media Roll Size	Maximum outer diameter:	5.00 in./127 mm
	Core inner diameter:	0.5 in. (12.7 mm) and 1.0 in. (25.4 mm) standard, 1.5 in. (38.1 mm), 2.0 in. (50.8 mm) and 3.0 in. (76.2 mm) using optional adapters
Media Thickness		0.003 in. (0.08 mm) min.; 0.0075 in. (.1905 mm) max. (tear-off mode only)
Media Types		Roll-fed or fan-fold, die cut or continuous with or without black mark, tag stock, continuous receipt paper, & wristbands
Ribbon Outside Diameter		1.34 in./34 mm (74 m)
Maximum Ribbon Length		244 ft. (74 m)
Ribbon Ratio		1:1 media to ribbon (74 m)
Ribbon Width		1.33 in./33.8 m ~ 4.3 in./109.2 mm
Ribbon Core I.D.		74 Meter ribbon 0.5 in./12.7 mm

Zebra ZD220

Operating Characteristics

Operating Temp.	40° to 105° F/4.4° to 41° C
Storage Temp.	-40° to 140° F/-40° to 60° C
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Electrical	Auto-detectable (PFC compliant)100-240 VAC, 50-60Hz; ENERGY STAR qualified

Operations and Accessories

Media Handling	Factory installed peeler
Real Time Clock	None

Fonts/Graphics/Symbologies

Barcode Ratios	2:1 and 3:1
1D Barcodes	Code 11, Code 39, Code 93, Code 128, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN-2-or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar and Planet Code
2D Barcodes	Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF, Aztec
Fonts and Graphics	16 resident expandable ZPL II bitmap fonts Two resident scalable ZPL fonts Five resident expandable EPL2 fonts Native open-type font support Unicode compliant for multi-language, on demand thermal printing China units include SimSun simplified Chinese font 50 MB user available non-volatile memory, 8 MB user available SDRAM

ZD421 TECHNICAL DATA

Zebra ZD421	ZD421	ZD421 HC
Standard Features		
Print methods: Thermal Transfer or Direct Thermal	•	•
ZPL and EPL programming languages	•	•
5 status icon, 3 button user interface	•	•
USB 2.0, USB Host	•	•
OpenACCESS™ for easy media loading	•	•
Dual-wall frame construction	•	•
ENERGY STAR qualified	•	•
IEC 60601-1 compliant power supply and healthcare		•
Wipeable plastics		•
Physical Characteristics		
Length	8.69 in./220.8 mm	8.7 in./221 mm
Width	6.98 in./177.5 mm	7.0 in./177 mm
Height	5.93 in./150.7 mm	5.9 in./151 mm
Weight	3.6 lb/1.6 kg	3.6 lb/1.6 kg
Printer Specifications		
Resolution	203 dpi/8 dots per mm Optional 300 dpi/12 dots per mm Resolution can be factory installed or changed on site via accessory kits. Resolution can be changed from 300 dpi to 203 dpi, as well as from 203 dpi to 300 dpi	
Memory	512 MB Flash; 256 MB SDRAM for factory installed network connectivity options 512 MB Flash; 128 MB SDRAM for printers without factory installed network connectivity options	
Maximum Print Width	4.09 in./104 mm for 203 dpi 4.27 in./108 mm for 300 dpi	
Maximum Print Speed	6 in./152 mm per second (203 dpi) 4 in./102 mm per second (300 dpi)	
Media Sensors	Full width, moveable reflective/black mark sensor; multi-position transmissive/gap sensor	
Firmware	ZPL II; EPL 2; XML; ZBI; PDF Direct	
Media and Ribbon Characteristics		
Maximum Label Length	39.0 in./991 mm	
Media Width	0.585 in./15 mm to 4.41 in./118 mm	
Media Roll Size	Maximum outer diameter:	5.00 in./127 mm
	Core inner diameter:	0.5 in. (12.7 mm) and 1.0 in. (25.4 mm) standard, 1.5 in. (38.1 mm), 2.0 in. (50.8 mm) and 3.0 in. (76.2 mm) using optional adapters
Media Thickness	0.003 in. (0.08 mm) min.; 0.0075 in. (.1905 mm) max.	
Media Types	Roll-fed or fan-fold, die cut or continuous with or without black mark, tag stock, continuous receipt paper, & wristbands	
Ribbon Outside Diameter	2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)	

ZD 421 TECHNICAL DATA

Zebra ZD 421	ZD421	ZD421 HC
Media and Ribbon Characteristics (CONT.)		
Ribbon Standard Length	984 ft. (300 m); 243 ft. (74 m)	
Ribbon Ratio	1:4 media to ribbon (300 m) 1:1 media to ribbon (74 m)	
Ribbon Width	1.33 in./33.8 mm – 4.3 in./109.2 mm	
Ribbon Core I.D.	300 meter ribbon 1 in./25.4 mm 74 meter ribbon 0.5 in./12.7 mm	
Operating Characteristics		
Operating Temp.	40° to 105° F/4.4° to 41° C	
Storage Temp.	-40° to 140° F/-40° to 60° C	
Operating Humidity	10% to 90% non-condensing	
Storage Humidity	5% to 95% non-condensing	
Electrical	Auto-detectable (PFC compliant)100-240 VAC, 50-60Hz; ENERGY STAR qualified; IEC 60601-1 compliant (NOTE: For high volume printing applications, power supply kit P1094879-045 is recommended.)	
Options and Accessories		
Media Handling	Field installable dispenser – label peel and present with label present sensor; field installable cutter	
Communications	Field installable RS-232 auto-sensing Serial, DB-9; Factory installed or field installable Ethernet – 10/100 internal; factory installed wireless dual radio:802.11ac Wi-Fi and Bluetooth 4.1; Bluetooth Low Energy included as standard on network connected models	
Battery	Provides power to the printer to support a full shift of printing at maximum print speed; supports all media handling options	
Real Time Clock	Real time clock included as standard on network connected models	
Keyboard Display Unit	ZKDU keyboard display units for stand-alone printing solutions	
Media Locking Cabinet	Mechanical lock with 2 keys; available on ZD421d-HC only	
Mounting Plate	Optional accessory to secure ZD Series printers to countertops or shelves.	
Enclosed Power Supply	Attached power supply accessory for cord-free installation	
Fonts/Graphics/Symbologies		
Barcode Ratios	2:1 and 3:1	
1D Barcodes	Code 11, Code 39, Code 93, Code 128, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN-2-or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar and Planet Code	
2D Barcodes	Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF, Aztec	
Fonts and Graphics	16 resident expandable ZPL II bitmap fonts Two resident scalable ZPL fonts Five resident expandable EPL2 fonts Native open-type font support Unicode compliant for multi-language, on demand thermal printing China units include SimSun simplified Chinese font 50 MB user available non-volatile memory, 8 MB user available SDRAM	

ZD621 TECHNICAL DATA

Zebra ZD621	ZD621	ZD621 HC
Standard Features		
Print methods: Thermal Transfer or Direct Thermal	•	•
ZPL and EPL programming languages	•	•
5 status icon, 3 button user interface	•	•
USB 2.0, USB Host	•	•
OpenACCESS™ for easy media loading	•	•
Dual-wall frame construction	•	•
ENERGY STAR qualified	•	•
Media dancer	•	•
Real Time Clock	•	•
IEC 60601-1 compliant power supply and healthcare		•
Wipeable plastics		•
Physical Characteristics		
Length		8.7 in./221 mm
Width		7.0 in./177 mm
Height		5.9 in./151 mm
Weight		3.6 lb/1.6 kg
Printer Specifications		
Operating System		Link-OS®
Resolution		203 dpi/8 dots per mm Optional 300 dpi/12 dots per mm Resolution can be factory installed or changed on site via accessory kits. Resolution can be changed from 300 dpi to 203 dpi, as well as from 203 dpi to 300 dpi
Memory		512 MB Flash; 256 MB SDRAM
Maximum Print Width		4.09 in./104 mm for 203 dpi 4.27 in./108 mm for 300 dpi
Maximum Print Speed		8 in./203 mm per second (203 dpi) 6 in./152 mm per second (300 dpi)
Media Sensors		Full width, moveable reflective/black mark sensor; multi-position transmissive/gap sensor
Firmware		ZPL II; EPL 2; XML; ZBI PDF Direct
Media and Ribbon Characteristics		
Maximum Label Length		39.0 in./991 mm
Media Width		0.585 in./15 mm to 4.65 in./118 mm
Media Roll Size	Maximum outer diameter:	5.00 in./127 mm
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Media Thickness		0.003 in. (0.08 mm) min.; 0.0075 in. (.1905 mm) max. (tear-off mode only)
Media Types		Roll-fed or fan-fold, die cut or continuous with or without black mark, label or tag stock, continuous receipt paper, & wristbands
Ribbon Outside Diameter		2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)

ZD621 TECHNICAL DATA

Zebra ZD621	ZD621	ZD621 HC
Media and Ribbon Characteristics (CONT.)		
Ribbon Standard Length	984 ft. (300 m); 243 ft. (74 m)	
Ribbon Ratio	1:4 media to ribbon (300 m) 1:1 media to ribbon (74 m)	
Ribbon Width	1.33 in./33.8 mm – 4.3 in./109.2 mm	
Ribbon Core I.D.	300 meter ribbon 1 in./25.4 mm 74 meter ribbon 0.5 in./12.7 mm	
Operating Characteristics		
Operating Temp.	40° to 105° F/4.4° to 41° C	
Storage Temp.	-40° to 140° F/-40° to 60° C	
Operating Humidity	10% to 90% non-condensing	
Storage Humidity	5% to 95% non-condensing	
Electrical	Auto-detectable (PFC compliant)100-240 VAC, 50-60Hz; ENERGY STAR qualified; optional 2750 mAh battery	
Options and Accessories		
Media Handling	Field installable dispenser – label peel and present with label present sensor; Factory installed cutter; Field installable aftermarket kits also available	
Communications	Factory installed wireless radio: 802.11ac Wi-Fi and Bluetooth 4.1	
Battery	Provides power to the printer to support a full shift of printing at maximum print speed. Supports all media handling options	
Keyboard Display Unit	ZKDU keyboard display units for stand-alone printing solutions	
Media Locking Cabinet	Mechanical lock with 2 keys; Kensington® lock slot; available on ZD461d-HC only	
Mounting Plate	Optional accessory to secure ZD Series printers to countertops or shelves	
Enclosed Power Supply	Attached power supply accessory for cord-free installation	
Fonts/Graphics/Symbologies		
Barcode Ratios	2:1 and 3:1	
1D Barcodes	Code 11, Code 39, Code 93, Code 128, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN-2-or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar and Planet Code	
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