ZEBRA

ZE500 Series Print Engines

INNOVATIVELY ENGINEERED FOR EASE OF USE AND SERVICING

Zebra's ZE500™ Series print engines are designed to keep your mission-critical print-and-apply applications operating without interruptions. Incorporating customer feedback and best practices into the design, Zebra® created print engines that can endure harsh environments and are easy to integrate, operate and maintain. Pairing mindful engineering with the features you need—including optional expanded RFID capabilities for greater tracking and visibility—ZE500 Series print engines give you the tools and flexibility you need to keep your business moving forward.



Zebra OneCare Services

Increase printer uptime, and reduce lost productivity and unbudgeted repair costs, by selecting a Zebra OneCare™ service agreement. A cost-effective means of planning and budgeting your annual maintenance expenditures, your agreement ensures that trained Zebra technicians will bring your printer back to factory specifications. Zebra offers a variety of plans to fit your budget and business needs.

Genuine Zebra Supplies

Ensure consistent print quality, reduce downtime and increase productivity in your printing process with Genuine Zebra™ supplies. We manufacture each supplies product with the exact same materials every time so you always get crisp, readable and scannable output without needing to adjust the printer darkness setting between rolls.

ZebraLink Software Suite

The ZebraLink™ suite of software and tools makes it simple to design, manage and adapt a barcode printing application tailored to meet your unique business needs.

Encased Design Withstands Harsh Environments

Engineered without the need for cooling fans, the ZE500 Series' external cabinet is impervious to prevent debris and water from entering the print engine. This added protection enables the printer to perform in dusty environments or where wash-down and water may be splashed around.

Smart Design and Features Give You Added Control and Capabilities

Featuring a broad range of connectivity, the ZE500 Series includes standard Serial, Parallel, USB and wired Ethernet—along with optional wireless capabilities—making it easy to integrate into your network.

Easy to Set Up

The large, graphical display with simple five-button menu can be rotated or remotely located up to two meters with an optional kit, so it is easily accessible even for unusual mounting orientations. The applicator IO is the same for 5V and 24V—just simply switch jumpers to convert.

Immediate Access to Support

An integrated QR Code gives you quick access to support and helpful how-to videos on topics ranging from changing the ribbon or drive system to changing the printhead and more.

Customize Print Quality Settings

Maximize print and image quality with the easy-to-use outboard cam system that adjusts the printhead to the platen roller on all three different axes—no matter what media is in use. And, two printhead toggles help maximize pressure dispensation across the printhead so you can dial in even further on print quality.

Simple to Maintain and Service

Easily remove all three platen, pinch and peel rollers in minutes from the front of the print engine without the need to remove the ZE500 print engine from the print-and-apply system. Captured fasteners eliminate lost hardware, and the pinch and peel rollers are now the same part to eliminate confusion and misinstallation.

Quickly access internal components via a hinged cage system that swings open wide for fast, simple maintenance. The innovative, extended-life modular drive system is engineered to be easily removed via only three screws and can be used as a spare module or rebuilt on a bench top. Change belts or alter resolution from 203 dpi to 300 dpi or vice versa in minutes. No need to shut down your operations for simple changes or maintenance.



ZE500 Specifications

RFID

- Supports tags compatible with: UHF EPC Gen 2 V2, ISO/IEC 18000-63 and RAIN RFID protocols
- · Prints and encodes short pitch item level tags
- Variable RFID power settings to support the widest range of tags
- RFID job monitoring tools track RFID performance
- RFID ZPL® commands provide compatibility with existing Zebra RFID printers
- Support for industry multi-vendor chip-based serialization (MCS)
- Supports block permalocking of user memory compatible with ATA Spec 2000
- Integrated ThingMagic® RFID Reader/Encoder

STANDARD FEATURES

- Print methods: thermal transfer or direct thermal
- · Orientation: right-hand or left-hand
- · Industrial all-metal construction
- · Applicator interface
- · Transmissive and reflective media sensors
- Thin film printhead with E3™ Element Energy™ Equalizer for superior print quality
- · Real-time clock
- · Rotatable display
- ZPL II®

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PRINTER	SPECIFICATION	42

Resolution	203 dpi/8 dots per mm or 300 dpi/12 dots per mm	
Memory	16 MB SDRAM, 64 MB Flash	
Maximum Print Width	ZE500-4: 4.1"/104 mm ZE500-6: 6.6"/168 mm	
Maximum Print Speed	ZE500-4: 12"/305 mm per second (203 and 300 dpi) ZE500-6: 12"/305 mm per second (203 dpi) 10"/254 mm per second (300 dpi)	
Media Sensors	Transmissive and reflective	
Print Length	ZE500-4: Label and liner width: 0.625"/16 mm to 4.5"/ 114 mm Minimum length with back feed: 0.5"/13 mm Minimum length without back feed: 0.25"/6.5 mm Minimum length in stream mode: 0.25"/6.5 mm Maximum length: 39"/991 mm Maximum continuous media print length: 150"/3,810 mm Ribbon width: 1"/25.4 mm to 4.2"/107 mm	
	ZE500-6: Label and liner width: 3"/76 mm to 7.1"/180 mm Minimum length with back feed: 3"/76 mm Minimum length without back feed: 1"/25.4 mm Minimum length in stream mode: 1"/25.4 mm Maximum length: 39"/991 mm Maximum continuous media print length: 150"/3,810 mm Ribbon width: 3"/76 mm to 7.1"/180 mm	

MEDIA CHARACTERISTICS Minimum Label and Liner Length · Applicator mode, backfeed on: 0.50 in./12.7mm Applicator mode, backfeed off: 0.25 in./6.4mm Stream mode: 0.25 in./6.4mm • Rewind mode: 0.25 in./6.4mm "loose loop" • Tear-off mode, backfeed on: 0.50 in./12.7mm • Tear-off mode, backfeed off: 0.25 in./6.4mm • Applicator mode, backfeed on: 3.0 in./76.2mm · Applicator mode, backfeed off: 1.0 in./25.4mm • Rewind mode: 1.0 in./25.4mm "loose loop" • Tear-off mode, backfeed on: 3.0 in./76.2mm

• Tear-off mode, backfeed off: 1.0 in./25.4mm Maximum Media ZE500-4: 4.5"/114 mm Width ZE500-6: 7.1"/180 mm Media Roll Size 4.0" (101.6mm) O.D on a 1.0" (25.4mm) I.D. core Thickness ZE500-4: 0.0053"/0.135 mm to 0.010"/0.254 mm ZE500-6: 0.003"/0.076 mm to 0.012"/0.305 mm Media Types Continuous, die-cut or black mark RIBBON CHARACTERISTICS (Thermal-transfer option only) Standard Length Width ZE500-4: 1"/25.4 mm to 4.2"/107 mm ZE500-6: 3"/76 mm to 7.1"/180 mm Core I.D. 1"/25.4 mm ID **OPERATING CHARACTERISTICS** Environmental Operating Temperature: 31°F to 104°F/0°C to 40°C Operating Humidity: 20% to 95% non-condensing R.H. Storage/Transportation Temperature: -40°F to 160°F/ Storage Humidity: 5% to 95% non-condensing R.H.

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	 Standards approvals: IEC 60950-1; EN 55022, 		
	Class A; EN 55024; EN 61000-3-2, 3-3		
	 Product markings: NRTL; CE; FCC A; ICES-003; VCC 		
	C-Tick; CCC; NOM; Gost-R; S- Mark; KCC; BSMI		

Universal power supply with power-factor correction

PHYSICAL CHARACTERISTICS

	ZE500-4	ZE500-6
Length	14.9"/379 mm	17.2"/438 mm
Width	9.6"/245 mm	9.6"/245 mm
Height	11.8"/300 mm	11.8"/300 mm
Weight	34 lbs/15.4 kg	38 lbs/17.3 kg

90-264 VAC, 47-63 Hz

COMMUNICATION AND INTERFACE CAPABILITIES

Parallel port: Centronics®-compatible Serial interface: RS-232

USB 2.0

Electrical

Agency Approvals

ZebraNet® 10/100 Print Server (internal) Applicator interface with DB-15F connector Optional ZebraNet b/g Print Server

Ideal for printand-apply labeling applications for products, cartons, cases and pallets in:

- Manufacturing and warehousing
- Pharmaceuticals
- Food and beverage
- · Health and beauty

ZE500 Specifications

SOFTWARE TOOLS

7ebral ink Solutions

Zebra Setup Utilities — A Windows® application to quickly set up and configure your Zebra printer.

ZebraDesigner™ — Simple Windows WYSIWYG label design application with basic features.

ZebraDesigner Pro — Simple Windows WYSIWYG label design application offering more advanced features for more complex label designs.

ZBI-Developer[™] — Programming utility makes it dramatically easier for programmers to create and test complex ZBI 2.0 [™] programs and distribute them to the printer (standard with ZBI 2.0).

ZebraNet™ Bridge Enterprise — Centrally manage Zebra printers from a single PC screen anywhere on your global network.

 $\begin{tabular}{ll} \textbf{ZebraNet Utilities v7.0} - \textbf{Provides enhanced printing, conversion and administration capabilities; message management; and more. \end{tabular}$

Zebra Enterprise Connector — Print labels directly from Oracle's BI Publisher with the Enterprise Connector and Zebra printers.

ZDesigner Windows Driver — Zebra's powerful Microsoft® certified Windows driver.

Web View

Connect and control Zebra barcode printers using ZPL II via the printer's web interface using common web browsers.

Alert

Printers equipped with ZebraNet print servers will notify you via any emailenabled wired, or wireless device to minimize downtime

FIRMWARE

 ${\bf ZBI~2.0-Optional~powerful~programming~language~that~lets~printers~run~stand-alone~applications,~connect~to~peripherals,~and~much~more.}$

 $\begin{tabular}{ll} \bf ZPL \ and \ ZPL \ II \ - \ Zebra \ Programming \ Language \ provides \ sophisticated \ label \ formatting \ and \ printer \ control \ and \ is \ compatible \ with \ all \ Zebra \ printers. \end{tabular}$

BARCODE SYMBOLOGIES

Barcode Ratios: 2:1, 7:3, 5:2, and 3:1

Linear Barcodes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, 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, TLC 39, MicroPDF, RSS-14 (and composite), Aztec

FONTS AND GRAPHICS

Zebra Global printing solution including Unicode"

Swiss 721 font standard

Bitmap fonts A to H and GS symbols are expandable up to 10 times, height- and width-independent

Smooth-scalable font \emptyset (CG Triumvirate Bold Condensed) is expandable dot-by-dot, height- and width-independent

IBM® Code Page 850 International Characters

Firmware support for downloadable TrueType™ fonts

Additional fonts available

Supports user-defined fonts and graphics, including custom logos

*Contains UFST® from Agfa Monotype Corporation

For optimum print quality and printer performance, use Genuine Zebra supplies. Specifications subject to change without notice.

