ZQ500 Series

Product Comparison

ZEBRA

What's New in the ZQ511 and ZQ521?

Add More Durability
- Tumble tested per the IEC68-2-32 spec to handle 1300 tumbles from 3.3 ft (1M)
- New over molding helps increase the longevity and keeps ZQ511 and ZQ521 printers looking good over their lifetime

Expand Your RFID* Technology
- Adding to the ZQ520 RFID, both the ZQ511 and ZQ521 are available in RFID models
- The ZQ511 is the only 3-in. RFID mobile printer we offer. Zebra is the only manufacturer to offer RFID on mobile printers.
- RFID calibrate only once for same media type

Go Green with Linerless**
- Eliminate waste and be environmentally friendly with linerless printing
- Spend less time disposing waste and more time on the task at hand
- Carry fewer rolls of media and change media rolls less frequently

Print Longer with More Battery Power
- Power through even the longest shifts with the high-capacity 3250 mAh PowerPrecision+ battery

Boost Print Quality and Performance
- New printhead and print mechanism, as well as new processor and added memory, deliver consistently outstanding print quality and performance

Maximize Your Investment
- Get increased protection with the ZQ511's and ZQ521's standard two-year warranty

Manage Bluetooth Printers Remotely
- Gain visibility and manage your ZQ511 or ZQ521 Bluetooth printers with the industry's first Bluetooth Management using SOTI® MobiControl® or Zebra's Printer Profile Manager Enterprise and an Android® mobile computer as a gateway

What is the ZQ500 Series?

To start, it's known as the most rugged mobile printer series on the market. Engineered with military-grade design to handle serious abuse, they're tested and certified to handle the drops, bangs, bumps, dirt and accidents that come with mobile environments. Featuring best-in-class printing, they offer blazing fast connectivity, RFID* and linerless** capabilities, remote management and more for maximum performance. These printers can handle it all, and continue printing sharp receipts, tags and labels to keep your workflows moving forward— inside and outside the four walls.

*RFID models only
**Linerless models only

ZQ511/ZQ521 vs. ZQ510/ZQ520

Feature	ZQ511/ZQ521	ZQ510/ZQ520
RFID		
Support for EPC Gen2v2, ISO 18000-63 and RAIN RFID Protocols	Yes	Only available on the ZQ520
Supports RFID Media Calibration	Yes	No
Global Certifications	Yes	No
Channel Availability	Yes	Only available on the ZQ520 through a custom agreement
User Interface		
Display	Simple LCD with large icons for battery and wireless status	Simple LCD with large icons for battery and wireless status
Navigation	Large, 3-button user interface	Large, 3-button user interface
Battery and Power		
Standard Battery	3250 mAh	2450 mAh
Power Smart Print Technology	Yes — delivers the exact amount of power required for the highest quality printing	Yes — delivers the exact amount of power required for the highest quality printing
Power Path	Yes — reduces battery wear and tear when printer is plugged into a power source	No
Sleep Mode with Instant Wake-up	Yes, Bluetooth and WLAN	Yes, Bluetooth only
Connectivity		
Wi-Fi	802.11ac with 802.11r; fast roaming	802.11a/b/g/n WLAN
Bluetooth	Bluetooth 4.1; Classic and Low Energy	Bluetooth 3.0
Environmental		
IP Rating	IP54 (IP65 with exoskeleton)	IP54 (IP65 with exoskeleton)
Drop Testing	6.6 ft/2 m to concrete	6.6 ft/2 m to concrete
Tumble Testing	Yes 1300 free falls from 3.3 ft/1 m per the IEC68-2-32 spec	No
MIL-STD 810g	Yes for shock, vibration, temperature	Yes for shock, vibration, temperature
Other		
Memory	4 GB RAM, 4 GB Flash 8 MB RAM, 64 MB Flash (User Available)	256 MB RAM, 512 MB Flash 8 MB RAM, 64 MB Flash (User Available)
Fonts	New modern Asian fonts	Limited Asian fonts
Printhead Diagnostics	Yes	Yes
Linerless	Yes	Only available on the ZQ510

ZQ511 & ZQ521 RFID vs. ZQ630 RFID

Feature	ZQ511 & ZQ521 RFID	ZQ630 RFID
RFID		
Support for EPC Gen2v2, ISO 18000-63 and RAIN RFID Protocols	Yes	Yes
Supports RFID Media Calibration	Yes	Yes
Global Certifications	Yes	Yes
Channel Availability	Yes	Yes
User Interface		
Display	Simple LCD with large icons for battery and wireless status	Color LCD, 240 x 288 pixels
Navigation	Large, 3-button user interface	5 navigation buttons The ZQ600 offers the same navigation as the QLn to ease the learning curve
Battery and Power		
Standard Battery	3250 mAh	6800 mAh
Power Smart Print Technology	Yes — reduces battery wear and tear when printer is plugged into a power source	Yes: Rev 2 — provides improved print quality under extreme conditions, e.g. low battery and cold temperatures
Power Path	Yes — reduces battery wear and tear when printer is plugged into a power source	Yes — reduces battery wear and tear when printer is plugged into a power source
Sleep Mode with Instant Wake-up	Yes	Yes
Connectivity		
Wi-Fi	802.11ac with 802.11r fast roaming	802.11ac with 802.11r fast roaming
Bluetooth	Bluetooth 4.1 Classic and Low Energy	Bluetooth 4.1 Classic and Low Energy
Environmental		
IP Rating	IP54 (IP65 with exoskeleton case)	IP43 (IP54 with soft case)
Drop Testing	6.6 ft/2 m to concrete	6 ft/1.83 m to concrete
Tumble Testing	Yes 1300 free falls from 3.3 ft/1 m	No
MIL-STD 810g	Yes for shock, vibration, temperature	No
Print & Media		
Print Width	ZQ511: 3 in./72 mm, ZQ521: 4 in./104 mm	4 in./104 mm
Outer Core Diameter	ZQ511: 2 in./51 mm, ZQ521: 2.25 in./57 mm	2.6 in./66 mm
Sensors	Mark	Mark and Label Present
Printhead Diagnostics	Yes	Yes