









Quick Comparison Guide: Mobile Printers (1)



| | RUGGED RECEIPT PRINTERS | | | RUGGED LABEL PRINTERS | | | | |
|--|--|---|---|--|---|--|--|--|
| Description | 2, 3 and 4 inch rugged mobile receipt printers | | | 2, 3, and 4 inch rugged mobile label printers | | | | |
| Target Applications | In-Store Retail (line busting, payment transactions, coupons, rainchecks), DSD (route accounting, payment transactions), Field Service (invoices, delivery receipts, service estimates) and Home Delivery. Demanding mobile environments where ruggedness and reliability are critical to worker productivity and total cost of ownership. | | | Warehousing, manufacturing, distribution, asset management and retail applications, as well as healthcare and public safety. Demanding environments where accuracy and speed are key performance indicators. Typical applications include asset labeling, shelf labeling/re-labeling, tote identification, re-stocking, product pricing, markdowns, specimen labeling. | | | | |
| | Intermec PB21 / PB31 / PB51  | Datamax-O'Neil 2te / 4te  | Zebra RW220 / RW420  | Intermec PB22 / PB32 / PB50  | Zebra QL220 / 320Plus / 420Plus  | O'Neil LP3  | Toshiba B-EP2 / BEP4  | Sato MB400  |
| Configurations | 2" / 3" / 4" Optional Mag Stripe Reader Optional Smart Card Reader (for 2" / 3" only) | 2" / 4" Optional Mag Stripe Reader | 2" / 4" Optional Mag Stripe Reader | 2" / 3" / 4" | 2" / 3" / 4" | 3" | 2" / 4" | 4" |
| Starting List with Battery | \$710 / \$780 / \$850 | \$550 / \$1125 | \$970 / \$1125 | \$865 / \$995 / \$1150 | \$1049 / \$1195 / \$1295 | \$995 | \$750 / \$950 | \$1,195 |
| Differentiators | <ul style="list-style-type: none"> • Fastest time-to-first-receipt • Optimized for Intermec computers, media, software • Rugged (drop spec, 50 G mount) • Easy to set up, use and support • Smart Printing And: more memory, shared accessories | | | <ul style="list-style-type: none"> • Fastest time-to-first-label • Optimized for Intermec computers, media, software • Rugged (drop spec, 50 G mount) • Easy to set up, use and support • Smart Printing And: more memory, shared accessories | | | | |
| Printing Method | Direct Thermal | Direct Thermal | Direct Thermal | Direct Thermal | Direct Thermal | Direct Thermal | Direct Thermal | Direct Thermal |
| Max Media Width | 2.20/3.30/4.39 in. (55.9 / 83.8 / 111.5 mm) | 2.25 in. (57 mm) | 1.89 / 4.10 in. (48 / 104 mm) | 2.20 / 3.30 / 4.39 in. (55.9 / 83.8 / 111.5 mm) | 1.89 / 2.90 / 4.09 in. (48 / 73.7 / 103.9 mm) | 1 – 3 in. (25.40 – 76.20 mm) | 2.28 – 4.53 in. (58 – 115 mm) | 1.90 – 4.30 in. (50 – 111 mm) |
| Media Type | Label or receipt | Label or Receipt | Label or receipt | Label (incl. floodcoat, linerless) or receipt | Label or receipt | Label or receipt | Label or receipt | Label only |
| Weight with battery | 1.49 / 1.82 / 2.62 lb (.68 / .83 / 1.20 kg) | .95 / 1.75 lb (0.44 / 0.79 kg) | 1.45 / 2.10 lb (.65 / .95 kg) | 1.49 / 1.82 / 2.62 lb (.68 / .83 / 1.20 kg) | 1.35 / 1.77 / 2.15 lb (.60 / .80 / .98 kg) | 2.50 lb (1.13 kg) | 1 / 1.90 lb (.48 / .86 kg) | 2 lb (.91 kg) |
| Max Print Speed | 4 ips | 2 ips | 3 ips | 4 ips | 3 / 4 / 3 ips | 2 ips | 4 ips | 4 ips |
| Memory | 16MB RAM, 64MB Flash | 2MB RAM, 4MB Flash | 16MB RAM, 8MB Flash | 16MB RAM, 64MB Flash | 16MB RAM, 8MB Flash | 2MB RAM, 4MB Flash | 16MB RAM, 8MB Flash | 16MB RAM, 8MB Flash |
| User Interface | Programmable LCD, 4 buttons and 4 audio status indicators. Fully functional setup menu in FP/DP and Fingerprint. | LED indicators for Bluetooth, charging and power status. | LCD and 4 buttons. Label Vista must be used to change settings. | Programmable LCD, 4 buttons and 4 audio status indicators. Fully functional setup menu in FP/DP and Fingerprint. | LCD and 4 buttons. Label Vista must be used to change settings. | LEDs, power button, battery gauge, feed button, radio button. | Backlit LCD, keypad, beeper, LED | LED and buzzer status indication; backlit LCD (WLAN version only) |
| IP Rating | IP54 (excluding paper path) | none | IP54 | IP54 (excluding paper path) | IP 14 | | IP54 with optional case | NA |
| Drop Spec | 5 ft (MIL-STD 810 F) 6.5 ft (with optional case) | 6 ft | 5 ft | 5 ft (MIL-STD 810 F) 6.5 ft (with optional case) | 5 ft | 4 ft | 6 ft | 5 ft |
| Accessories | *Hand strap, *shoulder strap, belt clip, protective case, *cart mount,* vehicle mount, *battery, *4-bay charger, *AC adapter, *cigarette lighter adapter, *truck power cable adapter, *truck/forklift power cables, *data cable, *cleaning cards. (*PB Series Shared) | Swivel belt loop, swivel-mount bracket, swivel-mount shoulder strap, AC adapter, cigarette lighter adapter, data cable, battery, cleaning cards | AC adapter, data cable, battery, quad external battery charger, cleaning cards, hand strap, vehicle dock | *Hand strap, *shoulder strap, belt clip, protective case, *cart mount,* vehicle mount, *battery, *4-bay charger, *AC adapter, *cigarette lighter adapter, *truck power cable adapter, *truck/forklift power cables, *data cable, *cleaning cards. (*PB Series Shared) | AC adapter, data cable, battery, quad external battery charger, cleaning cards, hand strap | AC adapter, data cables, battery, DB9 F cable (coiled), cigarette lighter adapter, dual external battery charger, cleaning cards, hand strap, cleaning kit | Spare battery, shoulder strap, 1 & 6 slot chargers, IP54 rated carry case, linerless label kit, AC & DC adapters | Battery Charger (single), AC adapter, quick guide, shoulder strap, shoulder bag with raintight cover, belt bag |
| Printer Languages | IPL, Fingerprint, Zsim, (ZPLII Simulation), ESC/P, DSIM | O'Neil (ESC/P) | EPL2, CPCL-native, ZPL, XML | IPL, Fingerprint, ZSim (ZPLII Simulation), DSIM, ESC/P | EPL2, CPCL-Native; ZPL, XML | Line Printer Mode, Easy Print® | TPCL, LABEL, RECEIPT, ESC/POS, BCI | SPBL |
| Wireless Options | BT, WLAN | BT | BT, WLAN | BT, WLAN | BT, WLAN | BT, WLAN | BT, WLAN | BT, WLAN |
| Security | WEP (64 and 128 bit) LEAP; WPA-PSK (TKIP / RC4); WPA2/802.11i-PSK (CCMP / AES); EAP-TLS, -TTLS, -PEAP, -FAST | 40 bit (64 bit) WEP, 128 bit WEP, WPA, WPA2, LEAP EAP-FAST, EAP-PEAP, EAP-TTLS | VPN, WPA/WPA2, WEP, Kerberos, WPA-PSK, EAP-TLS, EAP-TTLS, EAP-FAST, LEAP, PEAP, 802.11i | WEP (64 and 128 bit) LEAP; WPA-PSK (TKIP / RC4); WPA2/802.11i-PSK (CCMP / AES); EAP-TLS, -TTLS, -PEAP, -FAST | VPN, WPA | 40 bit (64 bit) WEP, 128 bit WEP, WPA, WPA2, LEAP EAP-FAST, EAP-PEAP, EAP-TTLS | 40 bit, 128 bit WEP | WEP 64/128bit, WPA, WPA (PSK, 802.1x), and EAP |
| Smart Printing | Host-driven printing & Fingerprint programming capability. Benefits include error proofing, stand-alone printing, BT scanner connectivity | Host-driven printing only | Host-driven printing only | Host-driven printing & Fingerprint programming capability. Benefits include error proofing, stand-alone printing, BT scanner connectivity | Host-driven printing only | Host-driven printing only | Host-driven printing only | Host-driven printing only |
| Better Together: Total Hardware Solution | Designed and tested to work with Intermec mobile computers | Not optimized for Intermec mobile computers | Not optimized for Intermec mobile computers | Designed and tested to work with Intermec mobile computers | Not optimized for Intermec mobile computers | Not optimized for Intermec mobile computers | Not optimized for Intermec mobile computers | Not optimized for Intermec mobile computers |

FAST

RUGGED

SMART

| | COMMERCIAL RECEIPT PRINTERS | | | FULL PAGE IMPACT PRINTERS | | WORKBOARD PRINTERS | |
|---|--|--|---|--|--|---|--|
| Description | 2 and 3 inch wearable mobile receipt printers | | | Full-page impact printer for 8.5" X 11" multi-ply forms | | Rugged 4 inch workboard printers with custom holders for mobile computers | |
| Target Applications | DSD, route accounting and field service applications with low volume printing needs. Retail line-busting, electronic citations and hospitality roving sales. | | | DSD, route accounting and field service applications. Generally used in fixed mount applications (permanently mounted in a truck) but can also be used as portable (luggable). | | DSD, route accounting and field service applications that want the convenience of a computer and printer built into a single package | |
| | <p>Intermec PB2 / PB3</p> | <p>Zebra MZ220 / MZ320</p> | <p>Zebra EM220</p> | <p>Intermec 6822</p> | <p>O'Neil microFlash 8i</p> | <p>Intermec PW50</p> | <p>O'Neil Print Pad</p> |
| Configurations | 2" / 3" Optional Mag Stripe Reader | 2" / 3" | 2" Optional Mag Stripe Reader | 8" | 8" | 4" Optional Mag Stripe Reader Optional Smart Card Reader | 4" Optional Mag Stripe Reader |
| Starting List | \$599 / \$699 (with BT) | \$550 / \$595 (with BT) | \$650 (with BT) | \$2,125 | \$1,450 | \$1200 / \$1425 | \$1280 / \$1570 |
| Differentiators | Rugged, internal mag stripe reader option. Longer service, field replaceable battery. Secure belt loop. International character sets. Ships with everything needed to print. | | | Only full page portable printer with integrated holders for Intermec CK61, 700, CN3 and CN4 Series mobile computers. | | Only workboard available with holders for Intermec CN3 and CN4 Series, and CK61 mobile computers. Fastest workboard printer available. Includes large memory to store fonts and graphics. | |
| Printing Method | Direct Thermal | Direct Thermal | Direct Thermal | Dot-matrix, bi-directional | Dot-matrix | Direct Thermal | Direct Thermal |
| Max Media Width | 2.25 / 3.13 in. (57 / 79 mm) | 2 / 3 in. (51 / 76 mm) | 2.28 in. (58 mm) | 8.50 in. (212 mm) | 9.50 in. (229 mm) | 4.25 in. (108 mm) | 4.10 in. (104 mm) |
| Media Type | Receipt only | Receipt only | Receipt only | Full page receipt or report | Full page receipt or report | Receipt only | Receipt only |
| Weight with Battery | .92 / 1.10 lb (.42 / .52 kg) | .71 / .78 lb (.32 / .35 kg) | .62 lb (.28 kg) | 12.25 lb (5.67 kg) | 11.37 lb (5.16 kg) | 3.71 lb (1.69 kg) | 3.53 lb (1.60 kg) |
| Max Print Speed | 2.2/2 ips | 3 ips | 3 ips | 2 pages per min | 180 cpi (std) 270 cpi (BT/WLAN) | 4 ips | 2 ips |
| Memory | 1MB RAM, 4MB Flash | 8MB RAM, 4MB Flash | 8MB RAM, 2MB Flash | 512 kB | 4MB RAM, 8MB Flash | 16MB RAM, 64MB Flash | 1MB RAM, 4MB Flash |
| User Interface | 3 multifunction LEDs | LED | LED | LED | N/A | Multifunctional LEDs | N/A |
| IP Rating | IP54 (with optional case) | IP42 | N/A | IP20 | N/A | IP20 | N/A |
| Drop Spec | PB2 - 5 ft PB3 - 3.3 ft | 4 ft | 4 ft | N/A | 3 ft | 4 ft | 4 ft |
| Accessories | Belt loop, shoulder strap, IP54 protective case, cleaning cards, cleaning pen, 2-bay battery charger, cigarette lighter adapter, serial cable, developers kit | Silicone skin, protective case, shoulder strap, 4-bay printer charger, vehicle adapter | Battery charger, belt strap, cleaning pen, leather case, data cable, EM Series quad charger, wall mount | Hand strap, AC adapter, MSR, cigarette lighter adapter, cleaning kits, shoulder strap, data cable, ribbon/purple ribbon, cradle for handheld, truck mount kit, soft case | AC adapter, MSR, cigarette lighter adapter, cleaning kits, shoulder strap, data cable, ribbon/purple ribbon, cradle for handheld, soft case, mounting brackets | Hand strap, shoulder strap, vehicle mount, cleaning card, battery, four-bay battery charger, A/C adapter, A/C power cord, truck power cable adapter, truck power cable, forklift power cable, serial cable, DEX cable | 3" spindle bracket, hand strap, AC adapter, MSR, cigarette lighter adapter, cleaning kits, shoulder strap, data cable, truck mount kit |
| Printer Languages | ESC/P, XSIM | CPCL-native | CPCL | ESC/P | ESC/P | ESC/P | ESC/P |
| Wireless Options | BT, WLAN, IrDA | BT, WLAN, IrDA | BT | BT | BT | BT | BT |
| Security | WEP (64 and 128 bit) LEAP; WPA-PSK (TKIP); WPA2/802.11i-PSK (CCMP/AES) | Optional VPN license for 802.11b/g radio | N/A | N/A | N/A | N/A | N/A |
| Smart Printing | Host-driven printing only | Host-driven printing only | Host-driven printing only | Host-driven printing only | Host-driven printing only | Host-driven printing only | Host-driven printing only |
| Better Together: Total Hardware Solution | Designed and tested to work with Intermec mobile computers | Not optimized for Intermec mobile computers | Not optimized for Intermec mobile computers | Designed and tested to work with Intermec mobile computers. Custom configurations with 700, CK61, CN3 and CN4 Series holders | Not optimized for Intermec mobile computers | Designed and tested to work with Intermec mobile computers. Holders available for CN3 and CN4 series, and CK61. | Not available with options for Intermec mobile computers |