

CITIZEN Printers

THERMAL PRINTERS:

Use a non-impact method for printing. This is accomplished by using chemically treated thermal paper. Chemicals suspended in the paper react to heat generated by the print head to form dots that make up the characters or image. Citizen offers a thermal serial printer and a thermal line printer.

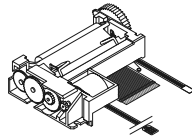
The serial printer uses a moving head that prints one character at a time, it is most suited for character printing, although the high speed model does support graphics. Its main benefit is low cost. Line printers have a fixed print head, printing one line at a time. It is suited for both high speed character and graphic printing. Its main benefits are higher definition graphic printing along with fewer moving parts.

INTERFACE BOARDS:

Acts as an interface between user's system and the thermal printer. Monitors temperature and paper status. Controls motor(s) and thermal head energy for optimal printing. Generates built in test pattern. Accepts both simplified Centronics or RS-232C (TTL only) interface.

NOTE: CBMA now markets the former Panasonic line of Thermal Printer Mechanisms. Please call Digi-Key for details.

Fig. 1 – Line Printer

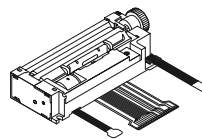


EPL1600 Series

- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Operatable by batteries (4.2 to 8.5 volts)
- Low current consumption
- Semi-auto paper loading function

NOTE: Available in 58, 80, and 112mm paper widths

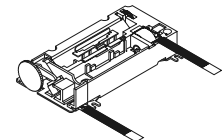
Fig. 2 – Miniature Line Printer



EPL1802S2 Series

- High speed printing
- Very small size
- Very light weight (40g)
- Low power consumption

Fig. 3 – Compact Line Printer



EPL1900 Series

- Compact size
- Low weight (55g)
- High reliability
- Easy maintenance

| Fig. | Print Method | Paper Width | Head Volt | Logic Volt | Print Speed (max.) | Char./Line | Head Life | Size (mm) | Digi-Key Part No. | 1 | 10 | Price Each | 100 | 250 | Citizen Part No. |
|------|--------------|-------------|-----------|------------|----------------------|------------|------------------------------|----------------|-------------------|--------|--------|------------|--------|-----|------------------|
| 1 | Line | 80mm | 5V | 5V | 400 dots-line/s max. | 36/72 | 5x10 ⁷ pulse/50km | 101 x 52 x 20 | 471-1001-ND | 127.76 | 117.81 | 109.40 | 102.51 | | EPL1602S3 |
| 2 | Line | 58mm | 5V | 5V | 450 dots-line/s max. | 24/48 | 1x10 ⁸ pulse/50km | 72 x 32 x 15 | 471-1032-ND | 120.24 | 110.88 | 102.96 | 96.48 | | EPL1802S2 |
| 3 | Line | 58mm | 5V | 5V | 300 dots-line/s max. | 24/36 | 5x10 ⁷ pulse/30km | 82 x 41 x 15.8 | 471-1033-ND | 40.93 | 37.75 | 35.05 | 32.85 | | EPL1902S2C |

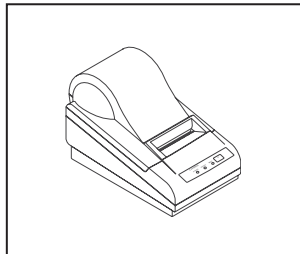
Interface Boards

EPLR1601Series

- Supports EPLR1600 series
- 364 built in character fonts
- ASCII JIS C6220 character codes
- Automatic loading
- Marker detection
- Bar code printing (UPC, JAN, EAN, CODE39, ITF, NW7)
- Operates on 5 volts EPLR1601

| Description | Digi-Key Part No. | 1 | 10 | Price Each | 100 | 250 | Citizen Part No. |
|--|-------------------|--------|--------|------------|--------|-----|------------------|
| Interface Board for EPLR1900 Series | 471-1035-ND | 208.75 | 192.50 | 178.75 | 167.50 | | EPLZR1901E |
| Power Cable for EPLR1601/1701 Interface Boards | 471-1017-ND | 8.02 | 7.40 | 6.87 | 6.44 | | EPLSRDSP303 |
| RS232 Cable for EPLR1601/1701 Interface Boards | 471-1019-ND | 5.85 | 5.39 | 5.01 | 4.69 | | EPLSRDSP305 |
| Centronics Cable for EPTR2000L/H Interface Boards | 471-1021-ND | 5.90 | 5.44 | 5.05 | 4.74 | | EPLSRDSP276 |
| EPLR1601 CPU Replacement Chip for User Designed Interfaces | 471-1023-ND | 24.80 | 22.87 | 21.24 | 19.90 | | EPLSAR1601 |
| EPLR1701 CPU Replacement Chip for User Designed Interfaces | 471-1024-ND | 24.80 | 22.87 | 21.24 | 19.90 | | EPLSAR1701 |

Thermal Line Printer CBM270



Features:

- Palm size
- Lightweight
- Availability of wall mount
- Paper auto loading
- Bar-code printing
- Compatibility (ESC/POS)
- Paper near end sensor
- 2K bytes input buffer
- Black and red printing with special paper (optional)

Applications:

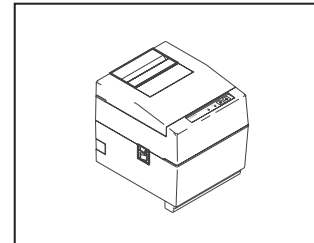
- POS • Banking • Medical equipment • Coupon • Ticket • Daily report • Delivery • Barcode

Specifications:

• **Printing Method:** Line thermal dot printing • **Printing Width:** 48mm (384 dots/line) • **Printing Speed:** Maximum 50mm/second, 400 dot-line/second (11 lines/sec.) • **Number of Columns:** Font A: 32 columns; Font B: 42 columns • **Character Size (W x H):** Font A: 1.25 x 3.00mm (12 x 24 dots), Font B: 0.88 x 3.00 mm (9 x 24 dots) • **Dot Pitch:** 8 dots/mm • **Bar-code Type:** UPS-A/E, JAN (EAN), ITF, CODABAR, CODE 39, CODE 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command (Minimum 1/203 inch) • **Printing Paper:** Thermal Roll Paper: 58 x ø83mm (max.) Thickness: 60–75µm Thermal Label Paper: 58 x ø83 (maximum) Thickness: 150µm label Label Width: 56mm (maximum) Label Length: 25mm/pc (minimum) • **Interface:** Parallel: Centronics, Serial: RS-232C • **Input Buffer:** 2K bytes • **Paper Supply:** DC 7.2V 2A (Peak 6A) or AC adapter AC 100-240V (27 AD) • **Weight:** Approximately 600g • **External Dimensions (W x D x H):** 106 x 184 x 110mm • **Reliability:** Head: 50,000,000 pulses or 50km • **Safety Standard:** FCC class A, TUV-GS, CE marking

| Description | Digi-Key Part No. | Price Each | 10 | 250 | Citizen Part No. |
|-----------------------|-------------------|------------|--------|-----|------------------|
| Parallel, 120V, Ivory | 471-1050-ND | 239.14 | 220.53 | | CBM-270PF 120V |

Impact Printers IDP3550/3551



Features:

- High-speed printing
- Paper auto loading
- Compatibility (CBM, IDP, ESC/POS, Star)
- 6K bytes input buffer
- Auto cutter (iDP3551)
- Cash drawer kick out
- Pinfeed version (iDP3550P)
- Two color printing

Applications:

- Receipt • Journal • Ticket • Label • Credit/Debit • Daily report • Kitchen • Delivery

Specifications:

• **Printing Method:** Serial dot impact • **Printing Direction:** Bidirectional • **Font:** 7 x 9 matrix • **Number of Columns:** 40 columns • **Printing Speed:** 3.6 lines/second (DP-654); 3.0 lines/second (DP-657) • **Character Size (W x H):** 1.36 x 2.4mm (DP-654); 1.20 x 2.4mm (DP-657) • **Character Set:** Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code • **Line Spacing:** 4.23mm, 1/6" (DP-654); 2.82mm (DP-657) • **Character Pitch:** 1.59mm (DP-654); 1.46mm (DP-657) • **Line Feed Speed:** 18 lines/second (DP-654); 15 lines (DP-657) • **Paper Feed Method:** Friction • **Paper:** 76mm roll paper • **Interface:** Parallel: Centronics Serial: RS-232C or Current loop • **Input Buffer:** 6K bytes • **Paper End Sensor:** Equipped • **Paper Cutter:** None (iDP3550); Partial/Full cut (iDP3551F) • **Paper Winder:** AW-3 (Option) • **Cash Drawer Control:** 2 drawers • **Ink Ribbon:** Red/Black, Cassette • **Power Supply:** AC 120V • **Power Consumption:** 30W • **Weight:** 2.8kg (iDP3550); 3.0kg (iDP3551F) • **External Dimensions (W x D x H):** 160 x 212 x 194mm (iDP3550); 160 x 212 x 173mm (iDP3551F) • **Operating Temperature Range:** 0°C – 40°C • **Storage Temperature Range:** -20°C – 60°C • **Reliability:** Printer: MCBF 4.0 million lines Head: 80 million characters Cutter: 500,000 cuts (iDP3551F) • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

| Description | Digi-Key Part No. | Price Each | 10 | 250 | Citizen Part No. |
|---------------------------------|-------------------|------------|--------|-----|------------------|
| Cool White, 120V, Parallel | 471-1057-ND | 245.69 | 226.57 | | IDP3550PF-CW |
| Cool White, 120V, Serial | 471-1058-ND | 245.69 | 226.57 | | IDP-3550RF-CW |
| Cool White, 120V, Serial Cutter | 471-1062-ND | 274.70 | 253.32 | | IDP-3551RF-CW |

More Product Available Online: www.digkey.com

2224 (T083)

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380