

## LTPD/CAPD Series 24 V **Printer** Mechanisms



In today's market product designers are asked to deliver smaller devices with more robust functionality, greater longevity, and enhanced reliability. To succeed products must be priced competitively and time to market is key. Point-of-sale (POS) systems, medical devices, and other products with embedded thermal printers are no exception. Each new generation must do more, cost less, and last longer.

New 24 V LTPD and CAPD series thermal printer mechanisms help engineers meet these challenges. These mechanisms are smaller and more robust, offering industry leading value, backed by critical advancements in design flexibility and reliability.

### Small Form Factor

LTPD and CAPD series mechanisms free up critical design real estate. The new mechanisms offer a smaller overall form factor, innovative angled paper guide that requires less depth, and a smaller pitch flexible print circuit (FPC) cable.

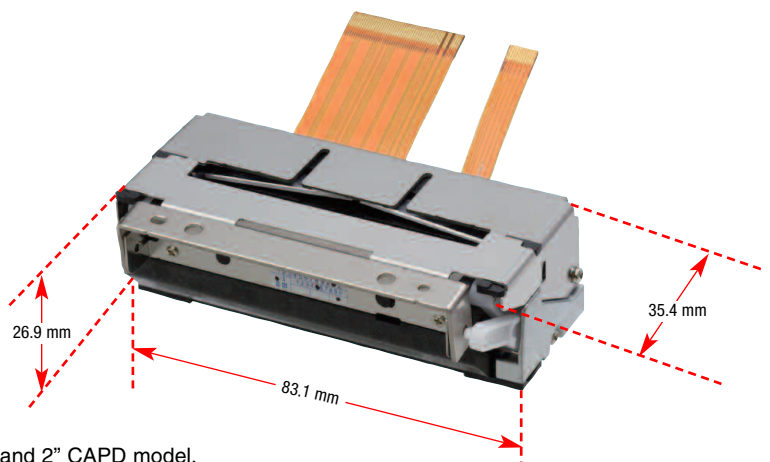
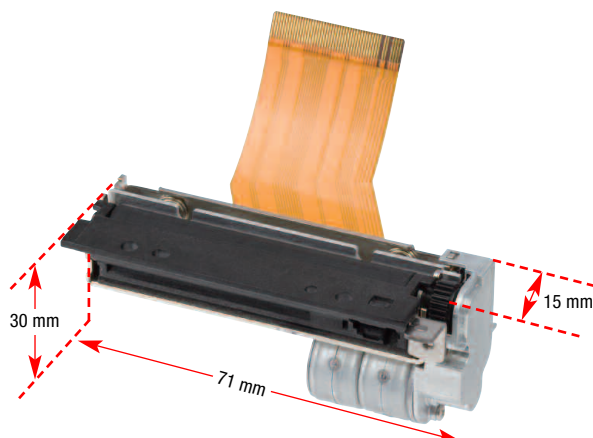
### Proven Reliability

LTPD and CAPD models are rated for a minimum of 100 km total printing and 100 million pulses for long life reliability. CAPD models offer a new built-in auto-cutter design, improving cutter reliability. The result: reliable media output, every time.

### Design Flexibility

An array of form factor choices provides more flexibility for a smoother integration process. Options include, ASIC and interface board solutions, and both horizontal and vertical mechanical orientation designs.

- **2" and 3" print width models**
- **Choice of horizontal and vertical orientations**
- **EZ-OP clamshell paper replacement**
- **Platen latch for better shock absorption**
- **Available built-in auto-cutter (CAPD models)**



2" vertical LTPD model and 2" CAPD model.

**Product Specifications**

| Model                      | LTPD247                           | LTPD347                   | CAPD247                | CAPD347                                                     |
|----------------------------|-----------------------------------|---------------------------|------------------------|-------------------------------------------------------------|
| Printing                   | Thermal line dot printing         |                           |                        |                                                             |
|                            | Method                            |                           |                        |                                                             |
|                            | Number of dots/line               | 432                       | 576                    | 432                                                         |
|                            | Resolution(dots/mm)               |                           | 8                      |                                                             |
|                            | Paper width (mm)                  | 58 <sup>+0.1</sup>        | 80 <sup>+0.1</sup>     | 58 <sup>+0.1</sup>                                          |
|                            | Printing width (mm)               | 54                        | 72                     | 54                                                          |
| Sensors                    | Speed (max mm/sec)                | 200                       | 170                    | 200                                                         |
|                            | Paper path                        | Curved                    |                        |                                                             |
|                            | Head temperature                  | By thermistor             |                        |                                                             |
|                            | Platen position detection         | By mechanical switch      |                        |                                                             |
|                            | Out of paper detection            | By photo interrupter      |                        |                                                             |
|                            | Cutter home position detection    | -                         | -                      | By photo interrupter                                        |
| Power supply (V)           | Operating Voltage (Vdd)           | 2.7 to 3.6 / 4.75 to 5.25 |                        |                                                             |
|                            | Operating Voltage (Vp)            | 21.6 to 26.4              |                        |                                                             |
| Peak current (A)           | Head                              | 2.61 (26.4 V/144 dots)    | 2.61 (26.4 V/144 dots) | 2.61 (26.4V/144dots)                                        |
|                            |                                   | 5.23 (26.4 V/288 dots)    | 5.23 (26.4 V/288 dots) | 5.23 (26.4V/288dots)                                        |
|                            | Motor                             | 0.44                      | 0.4                    | 0.44                                                        |
| Service life               | Cutter                            | -                         | -                      | 0.55                                                        |
|                            | Pulse activation (pulses)         | 100 million               |                        |                                                             |
|                            | Abrasion resistance (km)*         | 100 *                     |                        |                                                             |
| Operating temperature (°C) |                                   | -10 to 50                 |                        |                                                             |
| Dimensions (W x D x H mm)* | Horizontal                        | 71.0 x 30.0 x 15.0 **     | 91.0 x 30.0 x 15.0 **  | 83.1 x 35.4 x 26.9 **                                       |
|                            | Vertical                          | 71.0 x 15.0 x 30.0 **     | 91.0 x 15.0 x 30.0 **  | 105.1x35.4x27.2***                                          |
| Mass(g)                    |                                   | Approx. 56                | Approx. 64             | Approx. 131                                                 |
|                            |                                   |                           |                        | Approx. 154                                                 |
| Auto-cutter                | Method                            | -                         | -                      | Slide cutting                                               |
|                            | Paper thickness (um)              | -                         | -                      | 54 to 90                                                    |
|                            | Cutting type                      | -                         | -                      | 54 to 78                                                    |
|                            | Operating time (sec/cycle)        | -                         | -                      | Full cut and partial cut (1.5±0.5mm tab left at the center) |
|                            | Minimum paper cutting length (mm) | -                         | -                      | 0.5                                                         |
|                            | Cutting frequency (max cuts/min)  | -                         | -                      | 10                                                          |
| Life span                  |                                   | -                         | -                      | 30                                                          |
|                            | Paper cutting (cuts)              | -                         | -                      | 700,000 *                                                   |

\*Use recommended thermal paper. \*\*Excluding convex section.

\*\*\*Excluding Mounting Part. Specifications are subject to change without notice.

**IF Board Specifications**

|                               | IFD001-01UK-E                       | IFD001-01SK-E    |
|-------------------------------|-------------------------------------|------------------|
| CPU                           | PTD00P01-E                          |                  |
| Corresponding Model           | LTPD247, LTPD347 Series             |                  |
| Operating Voltage (V)         | CAPD247, CAPD347 Series             |                  |
| Character matrix (H x W dots) | Vp:21.6 to 26.4                     |                  |
|                               | 16 dot characters: 16 x 8, 16 x 16  |                  |
|                               | 24 dot characters: 24 x 12, 24 x 24 |                  |
| Character Type                | Optional font                       | Yes              |
|                               | Downloaded character                | Yes              |
|                               | User-defined character              | Yes              |
|                               | Extend graphics character set       | Yes              |
|                               | Katakana character set              | Yes              |
|                               | Codepage 1252                       | Yes              |
| Communication interface       | JIS 1&2 level kanji                 | Yes              |
|                               | USB(2.0)                            | Serial (RS-232C) |
| Dimensions (W x D x H mm)     | 69.0 x 50.0 x 14.0                  |                  |

**ASIC Specifications:**

|                               | PTD00P01-E                                             |
|-------------------------------|--------------------------------------------------------|
| Corresponding model           | LTPD247, LTPD347 series                                |
| Package form                  | CAPD247, CAPD347 series                                |
| Operating voltage (V)         | 120 pin QFP                                            |
| Operating frequency (MHz)     | Vp:21.6 to 26.4, Vcc:3.0 to 3.6                        |
| Configuration                 | 12MHz±0.01%                                            |
| Communication interface       | C-MOS LSI                                              |
| Character type                | Parallel, Serial, USB                                  |
|                               | Extended graphics character set                        |
|                               | Other characters available with CGs or external memory |
| Character matrix (H x W dots) | 16 dot characters: 16 x 8, 16 x 16                     |
| Dimensions (W x D x H mm)     | 24 dot characters: 24 x 12, 24 x 24                    |
|                               | 16.0 x 16.0 x 1.7                                      |

**Optional Cables**

| Accessory    | Product     |
|--------------|-------------|
| Power Cable  | DC-04100A-E |
| Switch Cable | OC-D1430A-E |
| Serial Cable | OC-D0730A-E |
| USB Cable    | IFC-U01-1-E |

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