

# CITIZEN

Micro HumanTech

## The ultra compact thermal printer for all kind of receipts and labels

### Small but powerful



CT-S281L

#### Low Voltage & Autocutter

The CT-S281 is CITIZEN's first low-voltage-operated POS printer equipped with an auto cutter.

#### 2-Dimensional Barcode

Unique in its class the CT-S281 is equipped with 2-dimensional barcode.



PDF417



QR code

#### Label version

Label printing never has been so easy. Just connect to your PC and print on standard 2 inch labels.

## CT-S280 / CT-S281(L)

POS

### Applications

- Receipt
- Kitchen
- Coupon
- Delivery
- Ticket
- Label
- Banking
- Daily report
- Medical equipment
- Weight scales



Easy paper loading



CT-S280 in black



CT-S280 in white

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## Specifications

| Model                                   | CT-S280   | CT-S281  | CT-S281L  |
|---|---|--|---|
| Print method                            | Line thermal printing method  |  |   |
| Print width                             | 48 mm max. (384 dots/line)  |  |   |
| Print speed                             | 80 mm/s (18.9 lines/sec.)   |  | 60 mm/s (14,2 lines / sec.)   |
| Dot density                             | 8 dots/mm 203 dpi   |  |   |
| Number print columns and character size | 32 columns max. font A (12x24 dots)<br>42 columns max. font B (9x24 dots)<br>48 columns max. font C (8x16 dots)<br>16 columns max. Kanji font A (24x24 dots)<br>24 columns max. Kanji font B (16x16 dots) |  |   |
| Character table                         | Alphanumeric, International characters, Code page 850,852, 857, 858, 860, 863, 864, 865, 866, WPC1252, Katakana, Thai code18, Kanji (JIS level 1, level 2), Kana, JIS C 6226-1983                         |  |   |
| Barcode type                            | UPC-A/E, JAN (EAN) 13/8 columns, ITF, CODE 39, CODE 128, CODABAR, CODE 93   |  | UPC-A/E, JAN (EAN) 13/8 columns, ITF, CODE 39, CODE 128, CODABAR, CODE 93, PDF417, QRCODE |
| Line spacing                            | 4.2 3mm (1/6 inch): Settable by commands  |  |   |
| Emulation                               | ESC/POS-compliant   |  |   |
| Paper size                              | 57.5mm±0.5<br>Thickness: 65 to 75 µm  | 58 mm<br>Thickness: 60 to 100 µm                     |   |
| Label                                   | -   | -  | Label width: 54mm (max)<br>Label length: 25mm/pc (min)                                    |
| Interface                               | Serial (RS-232C)<br>Parallel (IEEE1284 compliant, Centronics compliant)<br>USB (Virtual COM)  | Serial (RS-232C)<br>USB (Printer class, Virtual COM) |   |
| Input buffer                            | 4K or 45 bytes  |  |   |
| Power supply                            | DC 8.5V   |  |   |
| AC adapter                              | Input: AC 100 to 240V, output: DC 8.5V  |  |   |
| Weight                                  | Printer: Apprx. 430g, AC adapter approx. 240 g  | Printer: Approx. 630g, AC adapter approx. 240g       |   |
| Dimensions (WxDxH)                      | 106x170x116.5 mm  |  | 106x180x105 mm  |
| Operating temperature range             | -20°C ~ 60°C, 10 to 90%RH (No condensation)   |  |   |
| Reliability                             | 100 million pulses or 50 km   |  | 40 million pulse or 20km  |
| Thermal head                            |   |  |   |
| Auto cutter life                        | -   | 1 million cuts (Paperthickness 65 µm ≤ 75 µm)        | 400,000 cuts (with label paper)   |
| Safety standard                         | UL, C-UL, FCC Class B, TUV-GS CE Marking, VCCI Class A  |  | UL, C-UL, FCC Class B, TUV-GS, CE Marking, VCCI Class B                                   |

## Type Classification

CT-S281 RS E B P L M1

1) 2) 3) 4) 5) 6) 7)

### 1) Model type

CT-S280  
CT-S281

### 2) Interface

PA: Parallel (CT-S280 only)  
R: Serial (RS-232C)  
UB: USB

### 3) Destination

E: Europe  
U: USA  
J: Japan

### 4) Colour

B: Black  
W: White

### 5) Paper Near End sensor

P: PNE sensor (CT-S281 only)  
None: Not equipped

### 6) Label option

L: Label version (CT-S281 only)  
None: Not equipped

### 7) Black Mark Sensor

M1: BM sensor (CT-S281 only)  
None: Not equipped

## Features



- Low Voltage operation
- 80mm/sec printing speed (label version 60mm/sec printing speed)
- 58mm paper width
- Easy paper loading
- Cutter (full / partial) (CT-S281)
- Memory switch function
- Bitmap data registration (NV memory)
- Barcode printing
- 2-dimensional barcode (CT-S281)
- ESC/POS compatibility
- Page mode
- Two color printing
- Wall mount installation
- Available in white or black
- Label (CT-S281L only)
- Paper near end sensor (CT-S281)
- Black mark sensor (CT-S281L)
- Driver: Win 2000/XP/VISTA/2003 Server, CUPS