



## CPT-8300L Portable Terminal, Laser, 2 MB, 24 keys, without cradle

The CipherLab CPT-8300 series are rugged, versatile, high performance memory data terminals designed for all-day and everyday use. It is powered by a Li-ion rechargeable battery with working time longer than 100 hours. It is supported by a rich set of development tools, "C" and "Basic" compilers. With its integrated Laser/CCD barcode scanning unit, the 8300 series is ideal for batch applications such as inventory control, shop floor management, warehousing and distribution operations.

Beside the standard application tools (the Application Generator, the Mobile-Sale, etc.), CODEWARE develops custom-made applications for all CipherLab brand terminals. Feel free to contact us for more information.



The communication cradle is offered in two models, with the plain-character transfer protocol, and the second model with a built-in modem protocol.

### Features

Operation battery 3.7V Li-ion rechargeable battery, 700mAh.

Backup battery 3.0V, 7mAh rechargeable Lithium battery for SRAM & calendar

Working time over 100 hours for 8300 (batch model); over 20 hours for 8310 (433MHz RF model) and 8 hours for 8350 (2.4GHz RF model)

Dimensions Batch model: 169mm (L) x 77mm (W) x 36mm (H)

RF model: 194mm (L) x 77mm (W) x 44mm (H)

Weight Batch model: 230g (including battery)

RF model: 250g (including battery)

Color Black

Material ABS

CPU Toshiba 16-bit CMOS, tunable clock, up to 22MHz

Program memory 1 M Bytes flash memory is used to store the program code, font, constant data, and so on.

Data memory Batch model (8300): 2M / 4M / 8M Bytes SRAM

RF model (8310/8350): 256K Bytes SRAM

8300L / 8310L / 8350L (Laser) Light source: visible Laser diode operating at 670±15nm

Scan rate: 36±3 scans per second

Scan angle: 42°nominal

Minimum print contrast: 20% absolute dark/light reflectance at 670nm

Depth of field: 5 ~ 95 cm, depends on barcode resolution

8300C / 8310C / 8350C (CCD) Resolution: 0.125mm ~ 1.00mm

Depth of field: 2 ~ 20cm

Width of field: 45mm ~ 124mm

Scan rate: 100 scans/sec

Ambient Light Rejection: 1200 lux (Direct Sun-light), 2500 lux (Fluorescent Light)

Display 128x64 graphic dots FSTN LCD display with LED back-light

Keypad 24 numeric or 39 alphanumeric rubber keys.

Indicator Buzzer: Software programmable audio indicator, 1KHz to 4KHz, low power transducer type.

LED: Programmable, dual-color (green and red) LED for status indication

Communication RS-232: Baud rate up to 115200bps

Serial IR: Baud rate up to 115200bps

Standard IrDA: Baud rate up to 115200bps

433MHz RF: 9600bps data rate

2.4GHz RF: 19200bps data rate

Operating System CipherLab proprietary OS

Programming Tools "C" compiler, BASIC compiler and a Windows-based Application Generator

Accessories Charging / Communication Cradle, RS-232 cable, Keyboard Wedge cable, Power adapter, Li-ion rechargeable battery pack, RF base station

Environment

Operating Humidity non-condensed 10% to 90%

Storage Humidity non-condensed 5% to 95%

Operating Temperature -20 to 60 °C

Storage Temperature -30 to 70 °C

EMC regulation FCC, CE and C-tick, RoHS

Shock resistance 1.2m drop onto concrete

IP rating IP65



# Technical Description

## Functionality & Operation

|                         |                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|
| Data memory             | 2MB                                                                                                               |
| Keyboard                | 24 keys, with backlight                                                                                           |
| Operating system        | proprietary                                                                                                       |
| Display type            | LCD, white LED backlight                                                                                          |
| Data retention          | 36den                                                                                                             |
| Program memory          | 2MB                                                                                                               |
| Indicators              | Dual-color LED , vibration, programmable buzzer                                                                   |
| Communication interface | RS232, USB-HID, USB-VCP                                                                                           |
| Programmable features   | BLAZE C Compiler and BASIC Compiler, FORGE Application Generator,STREAM Wireless studio, MIRROR Terminal Emulator |

## Optical

|                  |           |
|------------------|-----------|
| Bar code scanner | Laser     |
| Resolution       | 128×64 px |

## Electrical

|                                  |                                 |
|----------------------------------|---------------------------------|
| Main battery pack                | Li-Ion 1800 mAh                 |
| Main battery pack operating time | 270hod CPT-8300, 20 hr CPT-8370 |

## Mechanical

|            |                                         |
|------------|-----------------------------------------|
| Dimensions | Width: 47mm, Height: 170mm Length: 77mm |
| Weight     | 290g                                    |

## Environment

|                                   |                         |
|-----------------------------------|-------------------------|
| Operating temperature             | -10 to 60°C             |
| Storage temperature               | -20 to 70°C             |
| Storage humidity (non-condensing) | 5 to 95%                |
| Electrical static discharge       | ±8kV contact, ±15kV air |
| Ingress protection                | IP65                    |

## Others

|                |                                        |
|----------------|----------------------------------------|
| Certifications | BSMI, C-Tick, CE, FCC Class A, IC, MIC |
|----------------|----------------------------------------|

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