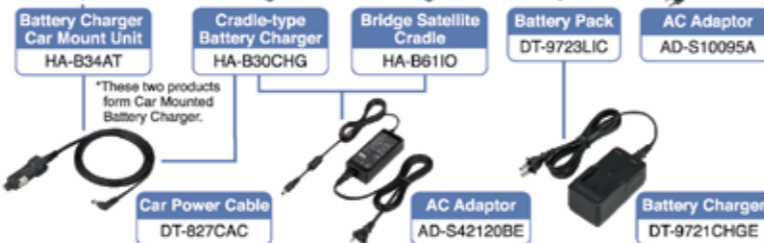




Model Selection

Model	Bluetooth	Magnetic Card Reader	C-MOS Imager
IT-3100M53E	Yes	No	No
IT-3100M54E	Yes	Yes	No
IT-3100M55E	Yes	Yes	Yes
IT-3100M56E	Yes	No	Yes



SPECIFICATIONS

CPU Marvell®PXA255 Application Processor (Max. 400MHz)
OS Microsoft®Windows®CE 5.0 English Version
Memory
RAM 128 MB
F-ROM 96 MB (User area: Approx. 30 MB)
Display
Type 3.5-inch Advanced 2-way TFT colour LCD
Resolution 240 x 320 dots
Backlight LED (Automatic control via brightness sensor)
Indicator 2-colour LED x 2
Printer
Printing method Thermal line dot
Paper width 80 mm or 58 mm
Printing width 72 mm or 48 mm
Speed 28 lines per second (while printing Kanji characters)
Paper Roll paper, formed paper (1P/2P), label paper
Total number of print dots 576 (if printed on 80 mm width paper)
Character size Free double-width characters
Font type ANK, Symbolgies (UPC-E, NW-7, Code39, Code128, OCR-B, user-defined characters x 128)
Sensor Positioning for printing
C-MOS Imager (IT-3100M55E/M56E)
Type 1/4-inch C-MOS Imager
1D readable symbologies EAN, UPCE/AE, Code39, NW7/Codabar, ITF, Code93, Code128, MSI/Plessey, IATA, Code11, GS1 DataBar (RSS-14)
2D readable symbologies Code49, PDF417, MicroPDF, Codablock F, Composite, GS1 DataBar (RSS-14) Stacked, DataMatrix, MaxiCode, QRCode, Aztec
Image capturing Max. 640 x 480 pixels, 2 or 256 gray scales, BMP or JPEG
Magnetic Card Reader (IT-3100M54E/M55E)
Standard ISO Tracks 1, 2 and 3 (ISO/IEC 7811-2:2001)
Input
Keyboard Numeric (Alphabet) keys, Double zero key, CLR key, ENT key, Cursor keys, Power key, Fn key, BS key, - key, . (Decimal) key
Program key Right, Left sides
Touchpanel Plastic panel (resolution 240 x 320 dots) with character input pad
Audio
Speaker Built-in (Monaural)

Interface
Bluetooth Bluetooth®Version 1.2 compatible
Infrared IrDA 1.1 compatible Max. 4 Mbps (under CASIO original protocol)
Serial RS-232C level interface (M53E, M54E)
14-pin Serial RS-232C level interface
SD slot SD memory card (SDHC supported)
PC card slot PC card Type III (3.3V/5.0V) 3.3V; Max. 500 mA, 5.0V; Max. 1,000 mA
Power
Operation Lithium-ion battery pack (DT-9723LIC) 7.4V 2200 mAh
Memory backup Lithium battery (rechargeable) on board
Charge time Approx. 8 hours with DT-9723LIC
Environment
Operating temperature -20°C to +50°C
Storage temperature -20°C to +70°C
Operating humidity 10% to 80%RH (no condensation)
Storage humidity 5% to 90%RH (no condensation)
Dust/Water-splash proof IP54
Drop durability From 1.2 m in height onto concrete floor
Dimensions and weight
Dimensions
IT-3100M53E Approx. 80*/108** (W) x 265 (D) x 28*/68** (H) mm
IT-3100M54E Approx. 80*/108** (W) x 295 (D) x 28*/68** (H) mm
IT-3100M55E Approx. 80*/145** (W) x 295 (D) x 28*/70** (H) mm
IT-3100M56E Approx. 80*/145** (W) x 265 (D) x 28*/70** (H) mm
 * ; display part, ** ; printer part (All sizes exclude extruding parts.)
Weight
IT-3100M53E Approx. 635 g
IT-3100M54E Approx. 680 g
IT-3100M55E Approx. 700 g
IT-3100M56E Approx. 655 g
Application development tool eMbedded Visual C++ 4.0, Visual Studio 2005
Compliance
Safety EN60950, UL60950
EMI, EMC EN55022/EN55024, FCC Part 15B
Bluetooth type approval EN300328/EN301489, FCC Part 15C, RSS-210 Bluetooth logo certification
Laser EN60825-1+A2:2001, 21CFR Part 1040.10

IT-3100 Series

Industrial Data Terminal with integrated high speed printer for improved business efficiency



- High speed thermal printer, capable of up to 28 lines per second, comes as standard
- C-MOS Imager for scanning 2D/1D symbologies and image capture (M55E/M56E models only)
- Magnetic Card Reader compatible with the ISO7811 for reading data on Tracks 1, 2 and 3 (M54E/M55E models)
- Rugged and durable. Drop tested from 1.2 m to concrete, sealed against dust and water to level IP54 and capable of operating in temperatures from -20°C to 50°C
- Easy operation with a large, backlit keyboard
- Various industrial standard interfaces for system expansion
- 3.5-inch (240 x 320 dots) Advanced 2-way TFT colour LCD for indoor and outdoor use



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 • Other product names or company names in this catalogue are either trademarks or registered trademarks of their respective owners.
 • Displays shown in this catalogue are photographic images.
 • This catalogue is current as of December 2008.
 • Specifications and designs are subject to change without notice.

All the features you need in one Industrial Data Terminal

The IT-3100 features a built-in high speed thermal printer capable of printing up to 28 lines per second. It runs on the Microsoft® Windows® CE 5.0 operating system for easy development and integration into the enterprise. Its sturdy construction enables it to withstand a drop from a height of 1.2 metres and the IP54 level sealing allows it to be used in dusty and wet environments. With Bluetooth® and IrDA both integrated as standard, and a PC card slot for optional use of Wireless LAN and WAN cards, a wide selection of wireless communication options is possible. Models with Magnetic Card Reader and C-MOS Imager are also available.



**Industrial Data Terminal
IT-3100**

Genuine ease of use and mobility for vertical applications

With the high speed printer integrated as standard on all models, the Magnetic Card Reader (M54E/M55E models) and the C-MOS Imager (M55E M56E/models only), it is finally possible to eliminate the need to carry separate devices such as portable printers, magnetic card readers and scanners. This not only lowers the cost of the overall solution, but also increases productivity and reliability. The IT-3100 series is ideal for issuing tickets, mobile sales, queue busting and in any situation where a receipt or label may be required.



Reduced human error and improved efficiency

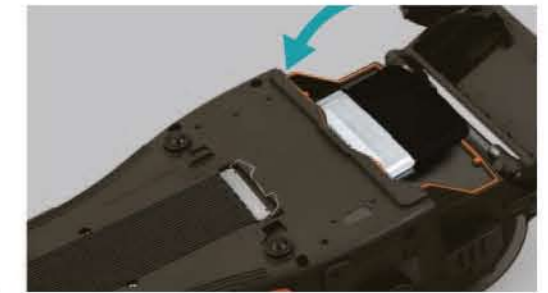
In addition to genuine ease of use and mobility, the IT-3100 series has been designed to be an all-round solution for vertical applications in all weather conditions, day or night. Meter reading, parking meter control, traffic violation control and most field service or maintenance operations will particularly benefit from the use of such a versatile device since it can significantly reduce human error and improve efficiency in these vertical applications.



A wide selection of industrial standard interfaces

An SD memory card slot, PC card slot (TYPE I/II) and integrated Bluetooth® come as standard. Data stored within the terminal can be backed up to an SD memory card if required. Wireless LAN communication is possible using a third-party Wireless LAN* card installed in the PC card slot. The integrated Bluetooth® module enables wireless communications with a wide range of third-party peripherals such as cellular phone and Bluetooth® Access-Point. In addition to these industry standard interfaces, an 8-pin serial port (M53E/M54E) and 14-pin serial interface are also available for connection with external devices.

* When a Wireless LAN card is used, it is possible to use the optional terminal emulation software developed by Naurtech Corporation.



Various types of PC card can be installed securely inside the slot using the provided fixing accessories.

Simple paper loading mechanism and ergonomic design

The built-in thermal printer uses a simple one-step paper-loading method. All that is required is for a user to place a paper roll inside the paper roll holder, pull out a 2 or 3 cm length and then close the cover. This simple method saves time and ensures that the paper is always loaded correctly even when performed in the field. An elastic rubber hand strap is included with the terminal. This hand strap is secured on the back of the terminal and enables users to hold it comfortably, eliminating the need to grip too firmly. This guards against both the likelihood of users dropping the IT-3100 and excessive fatigue during prolonged use.



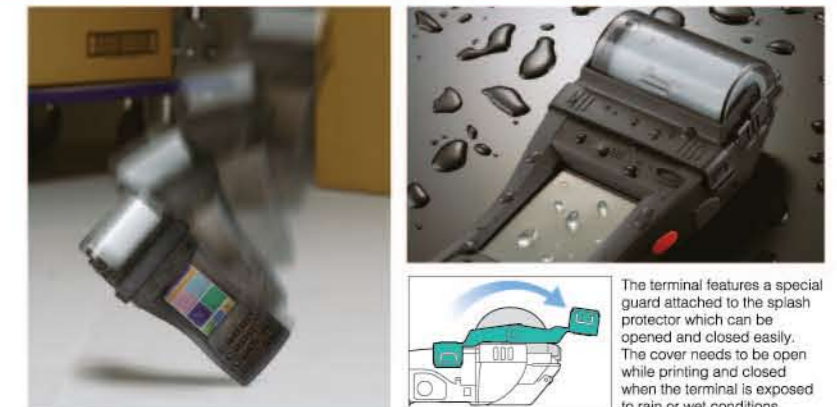
Microsoft® Windows® CE operating system

The IT-3100 uses Windows® CE 5.0 as its operating system allowing you to connect information, people, systems and devices together. Windows® CE 5.0 offers extensive support for wireless communications via Bluetooth®, Wireless LAN and WAN. The .NET Compact Framework is fully supported and applications can be developed using eVC++ 4.0 and Visual Studio 2005 with either VB .NET, C# or C++.



Sturdy construction withstands rough handling and severe environments

The IT-3100 has been designed and built for rugged reliability. The terminal, including the printer and paper roll holder (with the splash protector), complies with the IP54 rating (the International Standard IEC529) for dust and water-splash protection. It can withstand a drop from a height of 1.2 metres to concrete and can operate in temperatures between -20°C and +50°C. The IT-3100's rugged construction enables it to survive rough handling and give trouble free use over prolonged periods in very tough environments.



The terminal features a special guard attached to the splash protector which can be opened and closed easily. The cover needs to be open while printing and closed when the terminal is exposed to rain or wet conditions.

Superb visibility on both screen and keyboard

The IT-3100 features the Advanced 2-way TFT colour LCD (240 x 320 dots) screen with improved visibility. In comparison with LCD panel employed in IT-3000, the visibility of the new LCD panel has been significantly improved by enhancing the backlight efficiency which makes use both indoors and outdoors possible. The IT-3100 also features a large backlit keyboard. This is automatically controlled by a brightness sensor for optimum visibility irrespective of the lighting conditions.

