

SPECIFICATIONS			
CPU	Intel®PXA255 Application Processor (Max. 400MHz)		
OS	Microsoft®Windows®CE .NET 4.1 English Version		
Memory			
RAM	64 MB		
F-ROM	96 MB (User area: Approx. 30 MB)		
Display			
Type	3.5-inch 2-way TFT color LCD		
Resolution	240 x 320 dots		
Backlight	LED (Automatic control via brightness sensor)		
Indicator	2-color 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-3000M55U)			
Type	1/4-inch C-MOS Imager		
1D readable symbolgies	EAN, UPCA/E, Code39, NW7/Codabar, ITF, Code93, Code128, MSI/Plessey, IATA, Code11, RSS		
2D readable symbolgies	Code49, PDF417, MicroPDF, Codablock, Aztec, AztecMesa, QRCode, MaxiCode, DataMatrix (ECC000/050/080/100/140/200), Composite		
Image capturing	Max. 640 x 480 pixels, 2 or 256 gray scales, BMP or JPEG		
Magnetic Card Reader (IT-3000M54E/M55U)			
Standard	ISO Tracks 1, 2 (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		
Interface			
Bluetooth	Bluetooth™ Version 1.1 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		
PC card slot	PC card Type I/II (3.3V/5.0V) 3.3V; Max. 500 mA, 5.0V; Max. 1,000 mA		
Speaker			
Alarm	70 dB or over		
Voice	60 dB or over		
Key click	50 dB or over		
Power			
Operation	Lithium-ion battery pack (DT-9723LI) 7.4V 2200 mAh		
Memory backup	Lithium battery (rechargeable) on board		
Charge time	Approx. 8 hours with DT-9723LI		
Environment			
Operating temperature	-4°F to +122°F / -20°C to +50°C		
Storage temperature	-4°F to +158°F / -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-3000M53E Approx. 80*/108** (W) x 265 (D) x 28*/68** (H) mm IT-3000M54E Approx. 80*/108** (W) x 295 (D) x 28*/68** (H) mm IT-3000M55U Available in Q4 of 2004 * ; display part, ** ; printer part (All sizes exclude extruding parts.) IT-3000M53E Approx. 635 g IT-3000M54E Approx. 680 g IT-3000M55U Available in Q4 of 2004		
Weight	eMbedded Visual C++ 4.0, Visual Studio .NET 2003		
Application development tool			
Compliance			
Safety	EN60950, UL60950		
EMI, EMC	EN55022/EN55024, FCC Part 15B		
Bluetooth type approval	EN300328/EN301489, FCC Part 15C, RSS-210 Bluetooth logo certification		

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• Displays shown in this catalogue are photographic images.
• This catalog is current as of June 2004.
• Specifications and designs are subject to change without notice.



IT-3000 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 symbolgies and image capture (M55U models only)
- Magnetic Card Reader compatible with ISO7811 for reading data on Tracks 1 and 2 (M54E/M55U models only)
- 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 -4°F to 122°F / -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) 2-way TFT color LCD for indoor and outdoor use



All the features you need in one Industrial Data Terminal

The IT-3000 features a built-in high speed thermal printer capable of printing up to 28 lines per second. It runs on the Microsoft® Windows®CE .NET 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 meters 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-3000

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/M55U models) and the C-MOS Imager (M55U models), 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-3000 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-3000 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 (not available on M55U models) 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-3000 and excessive fatigue during prolonged use.



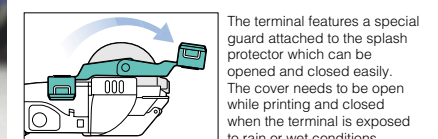
Microsoft® Windows®CE .NET operating system

The IT-3000 uses Windows®CE .NET 4.1 as its operating system allowing you to connect information, people, systems and devices together. Windows®CE .NET 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 .NET 2003 with either VB .NET or C#.



Sturdy construction withstands rough handling and severe environments

The IT-3000 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 meters to concrete and can operate in temperatures between -4°F and +122°F / -20°C and +50°C. The IT-3000'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-3000 features the 2-way TFT color LCD (240 x 320 dots) screen with improved visibility during outdoor use. Unlike conventional transparent LCDs, the IT-3000's screen uses CASIO's proprietary optical film to effectively reflect incoming light that is normally dispersed. The screen display has vivid clarity in both indoor and outdoor environments. The IT-3000 also features a large backlit keyboard. This is automatically controlled by a brightness sensor for optimum visibility irrespective of the lighting conditions.

