Mobile computing, scanning, printing and magnetic card reading. All with one terminal.

- Integrated high-speed thermal printer
- Touch display with advanced 2-way TFT color LCD
- Drop tested from 1.2 m to concrete, sealed to IP54
- CMOS imager and magnetic card reader model available
- Excellent expandability
- Perfect ergonomics

CASIO®

All the features you need in one reliable and ergonomic 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 your enterprise. Its sturdy construction enables it to withstand drops from a height of 1.2 meters down to concrete 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 or GPRS/ UMTS cards, a wide selection of wireless communication options is possible. Models with magnetic card reader and CMOS imager are also available.

Perfect for a variety of vertical applications

With the high speed printer integrated as standard on all models, the magnetic card reader (M54E/M55E models) and the CMOS Imager (M55E model), 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 for any application where a receipt or label may be required.
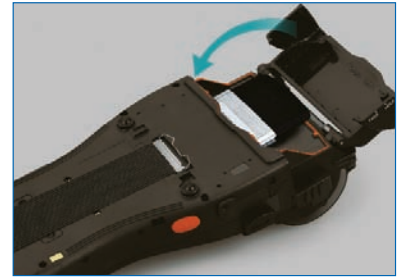
Reduced human error and improved efficiency

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 many 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.

Wide selection of industrial standard interfaces

A memory card slot (SDHC) and a PC card slot (TYPE I/II), integrated Bluetooth® and IrDA come as standard. Data stored in the terminal can be backed up to the SDHC memory card. Wireless LAN or UMTS is possible using a optional Wireless LAN or UMTS card installed in the PC card slot. The integrated Bluetooth® module enables wireless communication with a wide range of peripherals such as cellular phones or Bluetooth® Access-Points. In addition to these industry standard interfaces, an 8-pin serial port (not available on M55E models) and 14-pin serial interface are also available for connection with external devices such as smart card readers.

Built-in thermal printer

The built-in thermal printer uses a simple one-step paper-loading method. All that is required is to place a paper roll inside the paper roll holder, pull out SOME paper 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 dropping and excessive fatigue during prolonged use.

Microsoft Windows® CE 5.0

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

Built to withstand 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 drops from a height of 1.2 meters 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.
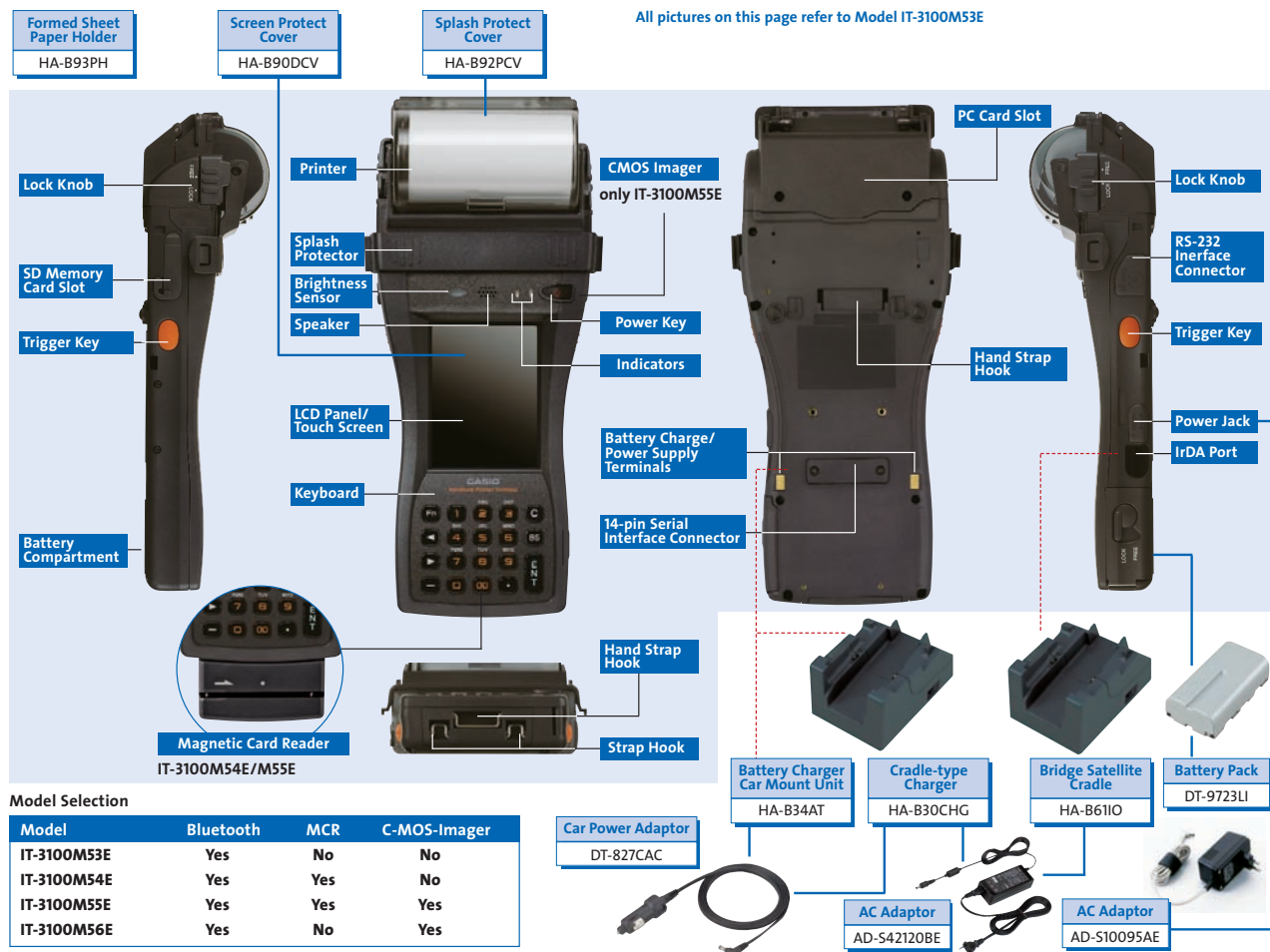
Superb visibility on screen as well as on keyboard

The IT-3100 features an advanced 2-way TFT color LCD screen (240 x 320 dots) with improved visibility during outdoor use. Unlike conventional transparent LCDs, the IT-3100'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-3100 also features a large backlit keyboard. This is automatically controlled by a brightness sensor for optimum visibility irrespective of the lighting conditions.

CASIO IT-3100

General Guide / Options

Formed Sheet Paper Holder
HA-B93PH

Screen Protect Cover
HA-B90DCV

Splash Protect Cover
HA-B92PCV

All pictures on this page refer to Model IT-3100M53E

Lock Knob

SD Memory Card Slot

Trigger Key

Battery Compartment

Printer

CMOS Imager
only IT-3100M55E

Splash Protector

Brightness Sensor

Speaker

Power Key

Indicators

LCD Panel/ Touch Screen

Keyboard

Magnetic Card Reader
IT-3100M54E/M55E

Hand Strap Hook

Strap Hook

PC Card Slot

Lock Knob

RS-232 Inerface Connector

Trigger Key

Hand Strap Hook

Power Jack

IrDA Port

Battery Charge/ Power Supply Terminals

14-pin Serial Interface Connector

Battery Charger Car Mount Unit
HA-B34AT

Cradle-type Charger
HA-B30CHG

Bridge Satellite Cradle
HA-B61IO

Battery Pack
DT-9723LI

Car Power Adaptor
DT-827CAC

AC Adaptor
AD-S42120BE

AC Adaptor
AD-S10095AE

Model Selection

Model	Bluetooth	MCR	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 Max. 400 MHz
Operating System	Microsoft® Windows® CE® 5.0 Embedded (engl. Version)
Memory	
RAM	128 MB
F-ROM	96 MB (30 MB user area)
Display	
Casio LCD	Advanced 2way TFT color LCD pressure sensitive touch panel
Size / Pixel	3.5 inch / 240 x 320 dots
Font size	Scalable fonts
Back light	LED, automatic brightness sensor
Printer	
Printing method	Thermal line dot
Paper width	80 mm, 58 mm or 82,55
Font type	Different font sets are preinstalled
Scanner	
Device	CMOS imager
Image data capture	max. 640 x 480 dots, 2 or 256 grey scales, bmp or jpg
Readable codes 1D	EAN, UPCA/E, Code39, NW7/Codabar, ITF, Code93, Code128, MSI/Plessi, IATA, Code11, GS1 Databar
Readable codes 2D	Code49, PDF417, MicroPDF, Codeblock, Aztec, AztecMesa, QRCode, MaxiCode, DataMatrix, Composite, TLC39, GS1 DataBar

Magnetic card reader	ISO Tracks 1, 2, 3 (ISO/IEC 7811-2 2001 standards)
Key pad	Backlit alpha numeric keyboard, double zero-, CLR-, ENT-, Cursor-, Power-, Fn-, Bs-, Minus-key
Interface	
Bluetooth®	Bluetooth® Version 1.2 compatible
Infrared	IrDA version 1.1
Serial	2 x Typ RS232 (8pin and 14pin), (1 x14pin M55E and M56E)
Card slot 1	SD card (SDHC compatible)
Card slot 2	PC card Type I/II
Power	
Battery	Li-Ion battery pack, 7.4 V 2200mAh
AC adaptor	100-240 V
Back-up battery	Li-Ion battery (rechargeable)
Environment	
Drop durability	1.2 m
Splashproof	IP54
Operating temp.	-20°C to 50°C
Dimensions (L x W x H)	265 x 68 x 108 mm (without options)
Weight	approx. 635 – 680 g (depending on model)
Application development tool	Microsoft Visual Studio, Microsoft eMbedded Visual C # 4.0 SP4
Compatibility	WLAN, GSM/GPRS network, UMTS, HSDPA, EDGE (all options)

Microsoft® Windows® Powered

CASIO.®