



# Mobility!

Multifunctional terminal for delivery service and ticketing



# Compact and multifunctional

Handheld device with receipt printer, imager, camera, NFC/RFID, GPS, 3G WAN and payment interfaces

## The Device at a Glance:

- Lightweight and robust: From 590 g, IP54, 1.5 m drop resistance
- Ergonomic: Nonslip, compact housing design with integrated printer for receipts, tickets or labels
- Practical: Paper tray for rolls up to 80 mm wide with tear-off edge
- High level of read performance: Integrated 1D/2D imager with autofocus and two scanning buttons on the side
- Flexible: NFC/RFID functionality as standard, magnetic card reader optional
- Safety: Up to 3 Secure Access Module Slots (SAM)
- Secure investment: Microsoft® Windows® CE 6.0 or Windows® Embedded Handheld 6.5



## Tried-and-tested handheld device



The new version of the CASIO IT-9000 multifunctional terminal - which has proven its value over three device generations - features increased computing power and uses a recent operating system from Microsoft®. Many aspects of the device have been optimised. The experience of more than 40,000 sold devices has helped to create a perfect multifunctional terminal. The IT-9000 is mostly used in the following sectors: delivery

services and service organisations around the world, as well as in ticketing for national railways and regional transport companies, events and parking management. It is ideal for handling all tasks in the area of mobile data collection and receipt printing, right through to online payment processing. Everything is integrated, from employee authentication via NFC smart card to RFID functionality and the CMOS imager for all common ID codes, as well as a magnetic card reader for customer data collection, a digital camera for image capturing and GPS to determine location. After data is processed using communication with WLAN or with the mobile network, receipts and tickets can be printed out directly.

## Perfectly integrated printer

The print unit and paper tray of the CASIO IT-9000 are integrated seamlessly into the handheld housing and are well protected against external influences such as impacts, dust and rain. The printer works very quickly and has some special features that perfect the receipt or label printing process and make the device easier to handle in mobile operations. For example, the 80 mm wide thermal paper can be fed in both directions, which results in significantly reduced printing times, improved print quality and lower paper consumption. The device can process a paper roll up to 44 mm thick. It is positioned in a way that ensures that the paper is always perfectly positioned during printing. After printing, the receipt can be cleanly ripped off using a tear-off edge. A block code reader integrated in the printer helps to detect the position of the paper and can be used to control the number of receipts printed.

## Flexibility thanks to RFID/NFC functionality

When it comes to contactless smart cards and Near Field Communication (NFC) or RFID transponders, this device supports the established protocols and standards (13.56 MHz).



## On the Way Across all Networks

For fast data communication, Bluetooth®, WLAN (IEEE 802.11 b/g/n) and 3G WWAN (HSPA and UMTS) are available. The USB interface or contacts on the housing can be used to connect the device to vehicle cradles and docking stations (via USB or Ethernet). Slots for SIM, SAM and SD cards are integrated in the device.

## Ideal for mobile applications

The CASIO IT-9000 is equipped with a Marvell® PXA 320 processor (806 MHz) and plenty of memory. The device uses the Microsoft® Windows® Embedded CE 6.0 or the Handheld 6.5 operating system. This makes it easy to integrate the device into existing applications and standard solutions. The combination of powerful hardware and a proven operating system means that the device represents a secure investment over many years and is suitable for a great number of applications.

## The best choice for every task

Thanks to a selection of nine different series-production models, the most economical and optimal model of the IT-9000 series can be chosen for each task. The table on the next page indicates which models are equipped with an imager, RFID/NFC functionality and/or a magnetic card reader.



### CCV PIN pad: cashless payments on the bus or train

The PIN pad is linked via Bluetooth to the multifunctional terminal and can be used to take payments (e.g. by Girocard [EC card]) immediately. The PIN pad sends encrypted payment data via the CASIO IT-9000's UMTS connection to the bank's authorisation systems to ensure that transactions are handled securely. Successful payments are confirmed on the PIN pad and a receipt can be printed.

## Details, Options and Accessories

Front view (model GMC25E-C)	Back view (model GMC25E-C)	Side view, version with MCR	Views (with integr. RFID/NFC antenna) and additional printer details
<ul style="list-style-type: none"> <li>Printer with tray and splash guard</li> <li>edge to tear off documents</li> <li>3.7" display, 480 x 640 pixels with touch panel (fingertip or pen control and capture of signatures)</li> <li>4 function keys</li> <li>Cursor keypad</li> </ul>	<ul style="list-style-type: none"> <li>CMOS imager and NFC / RFID reader</li> <li>Digital camera with LED flash</li> <li>Power On/Off</li> <li>Scan buttons left and right</li> <li>Battery case</li> <li>MCR sided reading head, 3 tracks</li> </ul>	<ul style="list-style-type: none"> <li>Safety catch</li> <li>SD card slot</li> <li>DC- and USB Slot</li> </ul>	<ul style="list-style-type: none"> <li>Imager + NFC/RFID</li> <li>Digital camera + flash</li> <li>Paper tray with catch</li> <li>Tray with lid</li> </ul>

<ul style="list-style-type: none"> <li>USB/ Ethernet cradle (charging function) HA-L62IO</li> <li>USB cradle (charging function) HA-L60IO</li> <li>Charging cradle HA-L30CHG</li> </ul>	<ul style="list-style-type: none"> <li>AC Adaptor 240 V / 12 V, 3.5 A AD-S42120C-N5</li> <li>Battery 2.000 mAh HA-G20BAT</li> </ul>	<ul style="list-style-type: none"> <li>Screen protect sheet, (no picture) 5 pieces HA-C90PS5</li> <li>Dual battery charger HA-G32DCHG</li> </ul>	<ul style="list-style-type: none"> <li>Car cradle with charging function HA-L35CHG</li> </ul>
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Model Overview:		IT-9000-05E-C	IT-9000-25E-C	IT-9000-G05E-C	IT-9000-G25E-C	IT-9000-GC25E-C	IT-9000-GMC25E-C	IT-9000-E-C	IT-9000-GE-C	IT-9000-G20E-C
<b>CMOS Imager</b>			•		•	•	•			•
<b>Digital Camera</b>						•	•			
<b>NFC / RFID Functionality</b>		•	•	•	•	•	•	•	•	•
<b>Magnetic Card Reader</b>							•			
<b>WWAN and GPS</b>				•	•	•	•		•	•
<b>Windows® Embedded Handheld 6.5</b>		•	•	•	•	•	•			
<b>Windows® Embedded CE 6.0</b>								•	•	•
Specifications:										
<b>Model Name</b>		CASIO IT-9000 series								
<b>CPU</b>		Marvel® PXA 320, 806 MHz								
<b>Operating System</b> (model dependent)		Microsoft® Windows® Embedded CE 6.0 / Embedded Handheld 6.5 (english versions)								
<b>Memory</b>		RAM / ROM 512 MB / 512 MB								
<b>Display</b>		<b>Size</b> 3.7 inch (94 mm) diagonal								
		<b>Resolution</b> 480 x 640 pixels, VGA, 65.536 Colours								
		<b>Technology</b> Blaview® TFT colour LCD with LED backlight and touch panel								
		<b>2 LED Indicators</b> 1: Battery charging status (red, orange, green) 2: Communication/ scan/ application status (blue, orange)								
<b>Input</b>		<b>Keyboard</b> 10 numeric keys with phone keypad characters, 4 function keys (colored), Enter key, Cursor keypad, BS key, CLR key, Menu key, Fn key, "00", "-" and "." keys (all backlight), On-/Off key								
		<b>Scan Trigger</b> 2 scan release buttons (left and right)								
		<b>Touch-screen</b> Industrial touch panel (scratch-resistant) with resistive touch								
<b>Wireless Communication</b>		<b>WLAN</b> IEEE 802.11 b/g/n (2.4 GHz), security standard and encryption WPA2/AES								
		<b>WWAN</b> (model dependent) 3G: HSPA, UMTS (900/2100 MHz), EGPRS (EDGE), GPRS, GSM (850/900/1800/1900 MHz)								
		<b>Bluetooth®</b> Bluetooth® integrated + EDR								
		<b>GPS</b> (model dependent) 12 Chanel Receiver, NMEA-0183, standard in versions with WWAN								
<b>Interfaces</b>		<b>Memory Card Slot</b> Compatible with SD memory cards (SDHC, SDIO) max. 32 GB								
		<b>SIM Card Slot</b> Compatible with SIM cards, standard in versions with WWAN								
		<b>SAM Slot</b> (model dependent) ISO 7816 IC card standard, 3 Slots standard, in versions with WWAN only 2 slots available								
		<b>Expansion Port</b> Electrical and mechanical connection for external hardware modules								
		<b>USB Port</b> Version 2.0 (Host / Client), USB connection with docking station or Micro-USB AB connector								
<b>Audio</b>		integrated microphone and speaker for signals and alarms etc.								
<b>Imager</b> (model dependent)		<b>Technology</b> Autofocus CMOS imager, resolution 832 x 640 px, 1D = 0.127 mm, Stacked = 0.169 mm, Matrix = 0.191 mm								
		<b>Reading Distance</b> 50 - 400 mm, depending on type (1D / 2D), size and print quality of the ident code								
		<b>Aimer</b> Laser beam 650 +10/-5 nm, power 1 mW or less								
		<b>Vibrating Signal</b> Confirms successfully decoded ident codes								
		<b>Readable 1D Symbologies</b> EAN-8, EAN-13, UPC-A, UPC-E, ITF 2/5-Interleaved, Codabar (NW-7), Code11, Code32, Code39, Code93, Code128, GS1-128 (UCC/EAN128), MSI, ISBT, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited and GS1 DataBar Expanded								
		<b>Readable 2D Stacked-Codes</b> GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked PDF417, Micro PDF, Composite and Codablock F								
<b>Digital Camera</b> (model dependent)		<b>Readable 2D Matrix-Codes</b> DataMatrix, Maxicode, QR-Code, Aztec-Code and Micro QR								
<b>Magnetic Card Reader</b> (model dependent)		Photo / video, resolution 2.0 MPx, lens (f = 3.45 mm, 1:2.8), autofocus and LED flash								
<b>NFC / RFID Functionality</b>		sided reading head, 3 tracks, F2F format ISO 7811-2 /6								
		<b>Technology</b> Smartcard reader / writer, NFC interface, frequency 13.56 MHz								
		<b>NFC Standards</b> ISO 14443 Typ A/B, Mifare®, FeliCa®								
<b>Printer</b>		<b>RFID Standards</b> ISO 15693, I-CODE, SLI®, Tag-It®, my-d®								
		<b>Technology</b> Integrated matrix printing mechanism for thermal paper and labels on rolls (up to 44 mm in diameter) with bidirectional paper feed for optimised printing and tear-off edge								
		<b>Print / Paper Size</b> Up to 72 mm print width with 80 mm wide rolls, 48 mm print width with 58 mm rolls								
		<b>Speed, Print Mode</b> 28 lines per second, normal (black on white), negativ (white on black), 5 font sizes and ID codes								
<b>Power</b>		<b>Block Code Reader</b> Sensor for detecting the position of paper and controlling the amount of printed receipts								
		<b>Operation</b> 7.4 V lithium-ion battery pack: HA-G20BAT 2,000 mAh								
		<b>Memory Backup</b> Integrated lithium battery								
<b>Environment</b>		<b>Drop Durability</b> Drop height: 1.50 m onto concrete								
		<b>Dust / Water Durability</b> IP54 protection rating, IEC 60529 compatible (protection against ingress of dust and splashing water on all sides)								
		<b>Operating Environment</b> Temperature range -20 to +50 °C, relative humidity 10 to 90 % (no condensation)								
<b>Dimensions (W x H x D)</b>		Width at printer 112 mm, at grip 78 mm, height 253 mm (w/o MCR), depth at printer 66 mm, at grip 37 mm								
<b>Weight</b> (with battery, without paper roll)		Approx. 590 to 675 g (model dependent)								

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