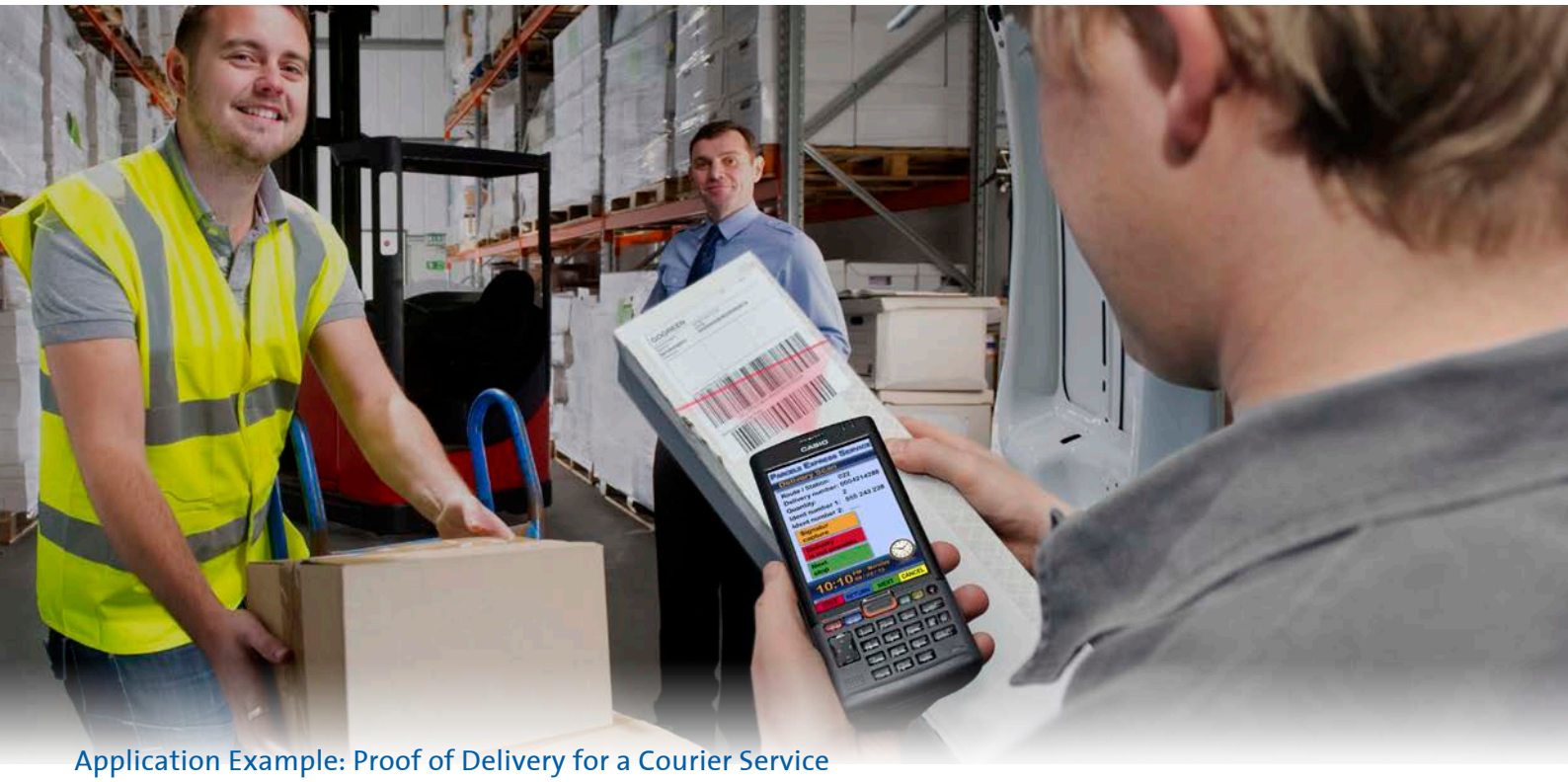
CASIO IT-G500

All-in-One

The High-Spec Handheld Device for all Applications

CASIO®



Application Example: Proof of Delivery for a Courier Service

Using the CASIO IT-G500, the delivery agent is able to scan the identification code of the delivered packages quickly and securely. The built-in scanner and the three trigger buttons allow the operator to work comfortably and effortlessly at all times. The device vibrates noticeably to confirm that the scan has been performed successfully. This closes the data capture process. Then the customer can confirm the receipt by providing a signature on the display.

A Robust All-in-One Handheld Device

The new CASIO IT-G500: Extremely robust, comfortably ergonomic and just as high-performance as it is multifunctional!

The Device at a Glance:

- Large 4.3” touchscreen (WVGA: 480 x 800 pixels)
- Lightweight at 270 g, with an IP67 protection rating and the ability to withstand drops from heights of up to 1.5 m
- Ergonomic housing design that is extremely easy to hold
- Windows® Embedded Handheld 6.5
- ARM® Cortex® A9 dual-core processor (1.5 GHz)
- 3G communication functionality (HSPA and UMTS)
- WLAN IEEE 802.11 a/b/g/n and Bluetooth™ 4.0
- Digital camera (5 MP) with LED flash
- Built-in RFID/NFC reader
- High-speed laser scanner or 2D CMOS imager, angled by 25° for enhanced ergonomics

Powered by Windows® Embedded

CASIO®

The Best of Both Worlds

The best features from two proven product lines and innovative new developments have been combined to create the CASIO IT-G500. The device is convenient to use, features an excellent 4.3" touchscreen display and achieves the highest levels of performance and durability – all-in-one!

The various ranges of CASIO business handheld products are renowned for comfort, ergonomics and performance. The CASIO series targets the industry, logistics and service sectors. They guarantee the highest level of resistance to external influences and provide the best results with regards to mobile data collection in the fields of transportation logistics, storage and production. In developing the current IT-G500 model range, CASIO has incorporated state-of-the-art technology for optimum ease of use in an extremely robust unit with specifications that exceed those of most proven handheld devices.

A Focus on Ergonomics: Human-centred Design

The ergonomic shape, the low weight and the special non-slip grip surface show CASIOs focus on the users operations.

Extremely Robust yet Ergonomic

The CASIO IT-G500 has been developed in accordance with the guidelines of ISO 9241-210 and reflects the principle of human-centred design. Even though the stylish device may not immediately appear highly resistant, it resists any challenge posed by day-to-day use in rough conditions.

The lightweight housing is produced, using durable plastics and can withstand drops onto concrete from a height of 1.5 metres. The device also offers optimum protection against dust and water according to the IP67 protection class. It is fully functional at temperatures between -20 °C and +50 °C. Come rain or shine – or even at extremely cold temperatures – the CASIO IT-G500 has the ideal features to prove its strength in the long-term when used in a tough day-to-day working environment.

The non-slip surface at the rear of the device and the special shape of the different battery compartment covers allow the device to be operated easily and without effort.

Pleasantly Easy-to-use

Weighing only around 270 g, the versatile and well-balanced device is easy to hold and can be operated like a smartphone via the large 4.3" touchscreen. Users can control the device in one of two practical ways – either by using their fingertips or a pen on the display, or by using the convenient keypad which allows data to be entered swiftly. The three trigger buttons for the scanner (on the left, right and centre) facilitate use by either left or right-handed people.

23% Larger Display and Extremely Robust!

A Unique Display

Boasting a 480 x 800 pixel screen, the WVGA display provides a 23% larger user interface for information compared with a conventional VGA display.

The special display technology from CASIO ensures that the touchscreen can withstand abrupt impacts and does not break. The display is approximately ten times more robust than normal screens.

Application Example: Process Optimisation through Photographic Documentation of Loading Conditions

Using the built-in digital camera of the CASIO IT-G500, the dispatch employee is able to capture the loading process for the lorry in order to ensure it has been loaded safely and in accordance with regulations. The high sensitivity of the lens, the LED flash and the autofocus function ensure sharp images. They can be immediately transferred wirelessly to the central database. Transportation companies and courier services can provide their customers a track and trace of their goods in a timely, detailed and comprehensive manner.

Optimum Equipment for Every Task

Thanks to a choice between seven models, the most economical type of the IT-G500 series can be used for each specific task without compromises. One group features a built-in laser scanner, while another is equipped with a CMOS imager. Additionally, both groups are able to achieve quick mobile web access with WLAN or if required, through the use of WWAN with SIM cards. The table on page 6 indicates which models have a built-in a digital camera and RFID/NFC functionality.

High-speed Scanner or CMOS Imager

Whether a laser scanner for 1D codes or an imager for common 2D codes is required, depends on the application. Both reading modules have an extremely high performance. They are even able to detect damaged codes very quickly and confirm the positive read by emitting an optical or acoustic signal. The device can vibrate which is especially useful in noisy environments. Due to the increased reading range, the imager module features an autofocus function and a clear laser aiming point.

On all models the scanner head is angled downwards by approx. 25 degrees. This makes operation even easier. By angling the scanner in this way, the device is more comfortable to hold. It allows the user to see the display during the scanning process. Three trigger buttons reduce the amount of finger movement to a minimum.

RFID/NFC, Digital Camera and GPS

Common protocols in the field of Contactless Smart Cards and Near Field Communication (NFC) are supported.

The integrated camera is perfect for creating pictures for quality control and damage recording. This data can be combined with the GPS coordinates.

Signature Capture Directly on the Screen

The scratch-resistant surface of the touchscreen allows handwritten input, such as confirming a receipt via signature.

On the Way Across all Networks

For fast data communication, Bluetooth® (4.0), WLAN (IEEE 802.11 a/b/g/n) and 3G WWAN (HSPA and UMTS) are available. The USB interface or the contacts at the bottom of the housing can be used to connect the device to vehicle cradles and to docking stations (Ethernet and/or USB). For SIM cards and microSD cards, covered slots are built into the device. The integrated microphone and speaker allow the user to make voice calls as well as recording voice memos.

Ready for Demanding Applications

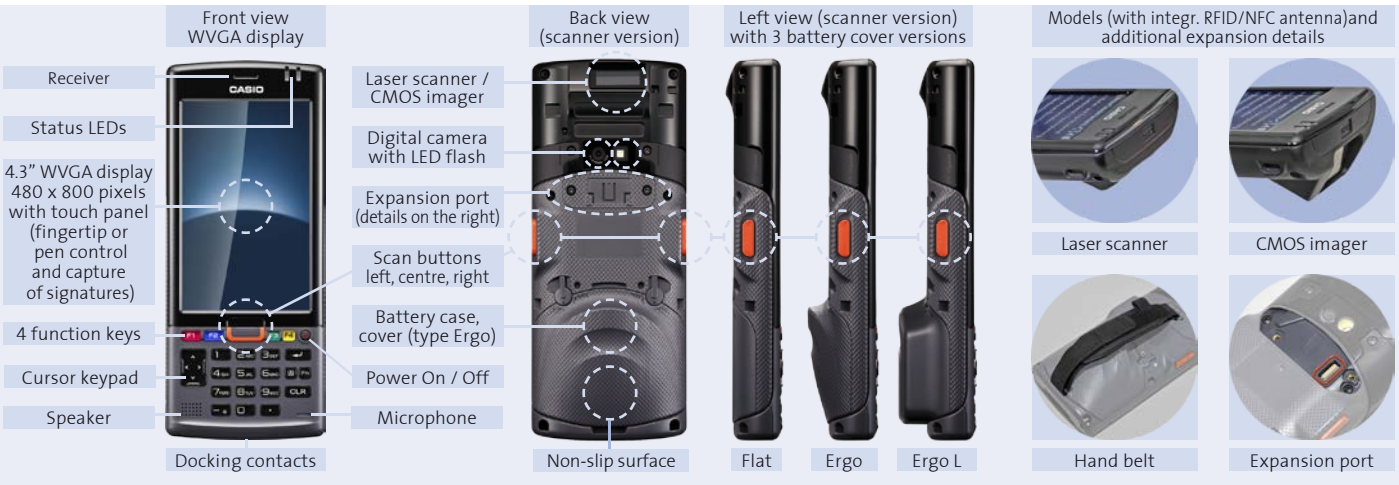
The CASIO IT-G500 handheld device is equipped with a powerful ARM® Cortex® A9 dual-core processor (1.5 GHz). Together with the large memory (1 GB / 512 MB RAM and 4 GB ROM), the device provides a high performance level.

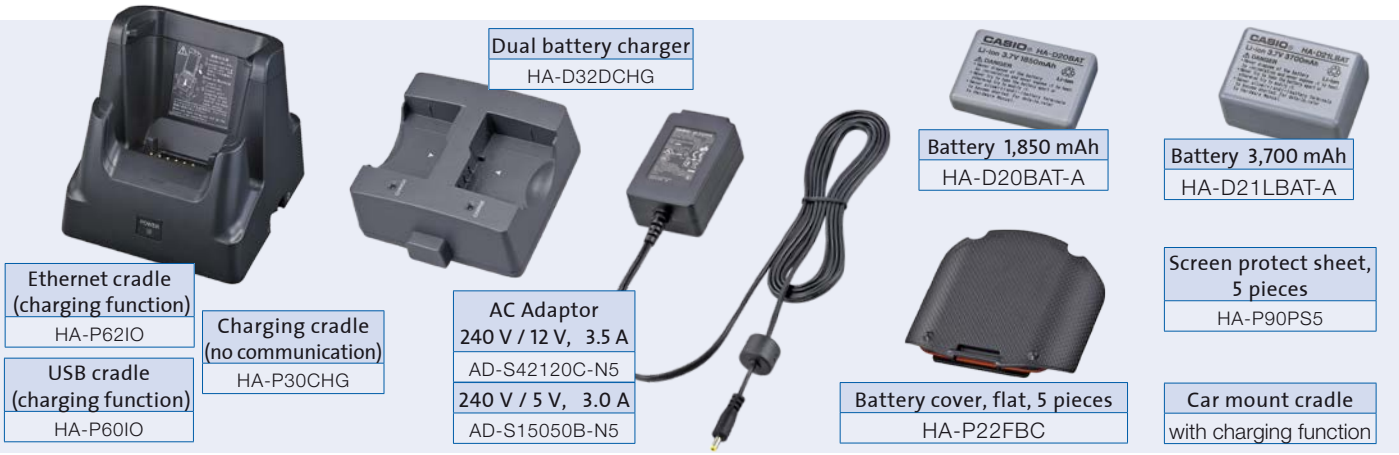
The device is powered by Microsoft® Windows Embedded Handheld® 6.5. It is extremely easy to integrate the mobile devices into existing applications and standard solutions. The combination of innovative hardware and a proven operating system means that the device represents a secure investment over many years and it is suitable for a great number of demanding applications.

The Ideal Handheld Device for the Industry, Logistics, Retail and Service Sectors

In connection with the robust and ergonomic design, the numerous practical features set new standards. They also represent a benchmark with regards to user acceptance and a high level of investment security.

Details, Options and Accessories





Model Overview	IT-G500-15E	IT-G500-G15E	IT-G500-C16E	IT-G500-GC16E	IT-G500-25E	IT-G500-C26E	IT-G500-GC26E
WLAN	•	•	•	•	•	•	•
WWAN		•		•			•
Laser Scanner	1D	1D	1D	1D			
CMOS Imager					2D	2D	2D
Camera			•	•		•	•
NFC / Expansion Port			•	•		•	•
Microphone		•	•	•		•	•

Specifications:

Model Name		CASIO IT-G500 series
CPU		ARM® Cortex®-A9, 1.5 GHz, dual-core
Operating System		Windows® Embedded Handheld® 6.5
Memory	**RAM**	1 GB (WEH 6,5 512 MB)
	ROM	4 GB
Display	**Size**	4.3 inch, WVGA
	Resolution	480 x 800 pixels, 16,700,000 colours
	Backlight	LED backlight
	LED Indicators	Indicator 1: batterie charging status - Indicator 2: communications status
Input	**Keyboard (backlit)**	10 alphanumeric keys, 3 scanning buttons (left, centre and right), 4 function keys, Enter key, Cursor keypad, CLR key, Fn key, Font key, (-) and (,) key, On-/Off key
	Touchscreen	Industrial touch panel with resistive touch and the support for finger touch and stylus
Wireless Communication	**Bluetooth™**	Version 4.0 low energy
	WLAN	IEEE 802.11 a/b/g/n
	WWAN	HSPA / voice communication (model dependent)
	GPS	Standard in WWAN model
	NFC	ISO 14443 Type Mifare®, ISO 14443 Type B / FeliCa®, ISO15693
Interfaces	**SIM Slot**	Standard in WWAN model
	Micro SD Slot	Compatible with SDHC cards
	Micro USB Port	Version 2.0 (host / client), Micro USB AB connector
	Cradle Port (USB)	Version 2.0 (host / client)
Digital Camera		Photo / video - resolution 5.0 Mpx - lens (f = 3.45 mm, 1:2.9) autofocus and LED flash (model dependent)
Audio		Built-in speaker (mono) for signals and alarms etc.
Phone / Voice		Built-in microphone and speaker (model dependent)
Earphone and Microphone Connector		3 mm phone jack
Vibrating Signal		Confirms correct scans
Laser Scanner (model dependent)	**Type**	Semiconductor laser
	Resolution	0.127 mm
	Reading Distance	approx. 46 to 550 mm
	Reading Symbologies	EAN8, EAN13, UPC-A/E, Codabar (NW-7), CODE39, CODE93, CODE128/GS1-128 (UCC/EAN128), ITF, MSI, IATA, Industrial 2of5, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Stacked, GS1 DataBar Expanded Stacked
CMOS Imager (model dependent)	**Type**	CMOS Imager, resolution 832 x 640 px, monochrom
	Aimer	Laser beam 650 +10/-5 nm, 1 mW or less
	Resolution	1D codes: 0,127 mm, 2D stacked-codes: 0,169 mm, 2D matrix-codes: 0,191 mm
	Readable Distance	From a distance of a few millimetres to several metres, depending on the size and print quality of the code
	Reading Symbologies	1D codes: EAN8, EAN13, UPC-A/E, Codabar (NW-7), CODE32, CODE39, CODE93, CODE128/GS1-128 (UCC/EAN128), ITF, MSI, ISBT, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded
		2D stacked-codes: PDF417, Micro PDF, Composite, Codablock F, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked
		2D matrix-codes: Aztec, DataMatrix, Maxicode, QR Code, Micro QR
Power	**Operation**	3,7 V lithium-ion battery pack: standard (1,850 mAh), large (3,700 mAh)
	Memory Backup	Integrated lithium-ion battery
Environment	**Humidity (Operating)**	10 % to 90 % relative humidity (no condensation)
	Drop Durability	Drop height: 1.5 m onto concrete
	Dust / Water Durability	IP67 protection class (dust-proof and water-resistance against temporary submersion)
	Temperature Range (Operating)	-20 °C to +50 °C
Dimensions		approx. 74 x 175 x 22 mm (basic measurement devices)
Weight		approx. 270 g (with standard battery)

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