

# Handheld-Series tt7000

The robust all-rounder for  
mobile RFID data collection



- Modular design
- 3,5" Touch-Display
- Telefonie/GSM/GPRS/GPS\*
- 1D/2D Scanner
- RFID (LF, HF and UHF)
- Stability provided by aluminium core
- Three serial interfaces, USB and Infrared
- Standard 4000 mAh rechargeable battery
- USB and Infrared
- WLAN



product  
design  
award

2006 ■

# Handheld Series tt7000

## Experience a new dimension in Mobile Computing

The handheld series tt7000 is developed as a modular product range. This concept allows the integration of a wide variety of components for almost all mobile applications with significant reduction of costs at the same time. The standard device is the common basis for the entire product family. Customer specific demands and wishes can be taken in account as well as additional expansion by using card slots or the unique BackPack technology. Instead of replacing the complete device only modular extensions are required for later on demands in mobile applications. This concept is the guaranty for minimizing the spare part stock as well as accessories and consumables. All cables and batteries can be used in all devices; one cradle supports the complete product family. With the handheld series tt7000 mobile users have everything they need.

The tt7000 series is designed for use in extreme working conditions. No protruding antennas, no unnecessary ports, protection against drop, dust and splash water guarantee a long life time.

In addition to the integrated modem\* for GSM/GPRS/Easy-GPRS, the tt7000 series offers models with WLAN, Bluetooth, laser scanner, camera, imager, internal GPS receiver, RFID reader, magnetic and/or chip card reader.

The standard rechargeable battery guarantees an exceptionally long period of use.

Even the basic configuration includes the following features as standard:

- ♦ the integrated aluminium core guarantees maximum stability and breaking resistance
- ♦ GSM/GPRS modem \*
- ♦ telephony / GSM / GPRS / WLAN / scanner / RFID reader all in one housing \*
- ♦ three serial interfaces, freely programmable, USB and IrDA included in the standard configuration
- ♦ SD card and CF card slot included in the standard configuration
- ♦ modular configuration, subsequent upgrading or extension possible
- ♦ long-life rechargeable battery
- ♦ high-contrast colour display
- ♦ back lighted keyboard with lock function, bottom row bevelled
- ♦ ribbed housing surface guarantees non-slip handling
- ♦ customised software with all options in the Windows CE.NET® range



(\* basic configuration tt7000C)

## Operating system

The tt7000 series runs on the operating systems Windows CE.NET® 4.2 and 5.0.

These operating systems allow the simple and future-oriented integration of various software applications.

Optimal support for WLAN, Bluetooth or GPRS is guaranteed.



# Handheld Series tt7000

## Functionality and data transfer

With the variety of models and components for almost all mobile applications the tt7000 series fulfils the demands for mobile computing.

All the integrated features are the result of many years of experience and customer projects. The tt7000 series is characterised by an optimum cost/performance ratio, multi-functionality as well as integration of barcode scanners and RFID readers in one housing.

In the communicator edition, the device additionally has a full-fledged phone function, which, aside from data transfer, allows calling without additional accessories.



## Perfect ergonomics and easy handling



The non-reflective colour display is clearly legible in all conditions of use.

The lateral ribbed structure guarantees non-slip handling of the device. Raised center ridges prevent the accidental operation of key buttons.

The slanted key buttons in the lower row prevent malfunction and early wear-and-tear when the device is pushed in a pocket frequently.

Standard function keys are freely programmable and offer easy operating for any application.



## Maximum number of interfaces

The device has three free programmable serial interfaces, one CF card slot, one SD card slot and IrDA and USB connections. One of the three serial interfaces is located on the rear of the device.

This allows easy connection to printers, GPS receivers, or other peripherals (e.g. temperature recorder), in addition to integrated scanners and RFID readers.



## Upgradability and hardware add-ons

The unique Backpack solution enables the additional use of many different expansion modules.

The Backpack accepts almost any board (as long as it doesn't exceed the housing dimensions). For example, RFID readers, GPS modules (incl. antenna) as well as magnetic or chip card readers from different manufacturers can be integrated in addition to barcode scanners.





# Handheld Series tt7000

## Technical specifications



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<b>Operating system</b>	Windows CE.NET®
	Version 4.2, 5.0 **
<b>Processor</b>	
<b>CPU</b>	ARM 920T 200 MHz (Motorola MX-1) high-performant
<b>Memory</b>	
<b>ROM</b>	32/128 MB NAND Flash **
<b>RAM</b>	64 MB SDRAM
<b>Additional memory</b>	1 x Compact Flash card, 1 x SD/MMC card
<b>Display</b>	
<b>Touchscreen</b>	3.5" transfective TFT display with LED backlight, 240 x 320 pixel, 65536 colours
<b>I/O unit</b>	
<b>Keyboard</b>	Matrix (23 keys)
<b>Touchscreen</b>	with stylus
<b>Interfaces</b>	
<b>3 serial</b>	2 x externally available 1 x 3,3 V level in battery case
<b>Infrared</b>	IrDA 1.2 (SIR)
<b>USB</b>	1 x
<b>Mobile communication</b>	GSM/GPRS Triband/Quadband Modem * WLAN (CF 802.11 b/g) Bluetooth module (CF slot)
<b>Audio</b>	
<b>AC 97 Codec</b>	Integrated loudspeaker and microphone
<b>Slots</b>	
<b>SD/MMC</b>	1 x
<b>Compact Flash</b>	1 x

<b>Power supply</b>	
<b>Rechargeable battery</b>	Li-Polymer, high-capacity
<b>Power adaptor</b>	DC 6 V / 3 A with power control on handheld
<b>Housing</b>	
<b>Size</b>	214 x 90 x 47 mm (L x W x D)
<b>Weight</b>	490 g (without battery)
<b>Working temperature</b>	-10° up to +55° C (bearing -20° up to +70° C)
<b>Integrated modules</b>	
<b>Scanner</b>	Laser scanner for barcode
<b>RFID reader</b>	RFID 125 KHz and 13,56 MHz UHF, Legic
<b>Card reader</b>	magnetic card and/or chip card
<b>Camera</b>	resolution: SXGA 1280 x 1024 focus: 10 - 90 cm (manual)
<b>Imager</b>	2D, barcode and photo
<b>GPS receiver</b>	20 channel receiver, SIRF-III technology
<b>External connections</b>	
<b>Printer</b>	RS232, IrDA or Bluetooth
<b>GPS mouse</b>	RS232
<b>Rugged standard</b>	
<b>IP 65</b>	protected against splashing water and dust
<b>Drop test</b>	1.5 m on concrete, all 6 sides
<b>Accessories</b>	
<b>Sync. and power cable</b>	
<b>BackPack</b>	
<b>Hand strap with stylus</b>	
<b>BeltBag</b>	
<b>Cradle for desktop and vehicle</b>	

\* basic configuration tt7000C  
\*\* depending on model

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