



tt8000

Mobile Compu

The t+t netcom handheld series tt8000 Premium Line provides highest quality mobile equipment. The tt8000 series complies with the IP 65 standard and is thus suitable for use under the toughest conditions. The powerful Freescale i.MX21 processor is an energy-saving device which guarantees highest processing speeds and above-average durability.

The basic model in the tt8000 Premium Line is equipped with 512 MB ROM storage, two serial interfaces and one USB interface, an MMC and an SD card slot (SDIO Standard), an integrated megapixel camera, the VOIP option (voice over IP) as well as the proven standard features common to all t+t netcom series, such as bevelled-edge keys with safety release, a ribbed-surface housing and a backlit keypad.

The devices in the tt8000 - Communicator - series are equipped with a powerful GSM modem and can be used for GPRS data transmission and as a mobile phone. They have a built-in microphone and speakers.

The integrated GPS module (optional) always shows you the right direction.

It is not necessary to purchase a new unit if you wish to extend the range of mobile applications; supplementary modules are available. **Scanner**, **imager**, **RFID** reader or **chip** card reader can all be integrated into the unit or the BackPack.

- The integrated aluminium core guarantees maximum stability and breaking resistance
- GSM/GPRS modem with Easy-GPRS communication *
- Telephony / GSM / GPRS / WLAN / scanner/ RFID reader all in one housing *
- Two 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
- Customised software with all options in the Windows CE® range

(* basic configuration tt8000C)

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.

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. The biggest advantage of the BackPack concept is the independence of the basic device. Using the BackPack kit the device can be extended at any time to meet subsequent upgrading requirements in mobile computing. No devices have to be replaced; the existing devices can be extended by using the BackPack. This guarantees the highest level of flexibility with low investment costs.



ting at its best

tt8000



Camera and Imager

The integrated camera or imager can recognise photos, identity papers or documents with high resolution and read data by using OCR directly on the mobile device or pass them to a central computer for checking.



Scanner and RFID reader

The tt8000 accepts a wide range of scanners in accordance with storage requirements.

The option Powerscan is equipped with a long-range laser scanner which can read barcodes from a distance of up to about 8 metres (depends on barcode quality and surrounding conditions).

If the warehouse goods are already equipped with transponders, different RFID readers can be integrated.

The tt8000 can accept both technologies if in use in the warehouse. In addition to the various scanners, a RFID reader can be integrated in the same device.

Chip/Magnet card reader

The tt8000 is the essential assistant for all courier, express, post and delivery services.

Direct on-the-spot payment is guaranteed by means of the integrated magnetic card and/or chip card reader.

The reader reads 3 stripes at once and so allows to work with EC cards which need stripe 1 and 2, but also with Credit cards where the information is written on stripe 2 and 3.

The chip card reader works according to the ISO standards, so it's possible to

read all typical chip cards in the field and not only payment cards. It's possible to communicate with T0 and T1 standard protocols.



GPS navigation

In-car or outside navigation is easy with the tt8000 series whose internal GPS receiver provides navigation without the need for external peripherals. Geo-positions away from the road are easily captured, for example, monitoring industrial plants, tracking containers and vehicles in large car parks. The navigator is also essential for applications in agrarian and forestry areas, which are not recorded on maps.

In the car the internal GPS receiver can be used or an external GPS mouse can be connected directly or via the installed cradle.

Standard navigation systems such as Map & Guide, Navigon or Tom Tom take care of routing. The tt8000 navigator pinpoints routes and positions.



Status February 2007 - Technical modifications without prior notice

Handheld Series tt8000

Technical specifications









Li-Polymer, high-capacity

handheld

1,3 MPixel

Li--lon-Cell (rechargeable)

214 x 90 x 47 mm (L x W x D)

490 g (without battery)

laser scanner for barcode

focus: 10 - 90 cm (manual)

RS232, IrDA or Bluetooth

2D, barcode and photo

RFID 125 KHz and 13,56 MHz

magnetic card and/or chip card

20 channel receiver, SIRF Star III

DC 6 V / 3500 mAh with power control on

-10° up to +55° C (bearing -20° up to +70° C)

Operating system Windows CE.NET ®

Processor

CPU

Memory

ROM RAM

Additional memory

Display

Touchscreen

I/O unit

Keyboard Touchscreen

Interfaces

2 serial

Infrared USB

Mobile communication

SD/MMC slot

Audio AC 97 Codec

Slots

Compact Flash

Rugged standard

Drop test

1 x RS232 (COM1), 1 x 3,3 V level (COM5)

1 x Compact Flash card, 1 x SD/MMC card

1 x IrDA 1.2 (SIR)

Matrix (23 keys)

with stylus

Host or device (to be configured via cable)

GSM/GPRS Quadband Modem *

WLAN (CF 802.11 b/g)

Version 5.0 Professional

512 MB NAND Flash **

3.5" Sharp TFT-LCD

240 x 320 pixel, 65536 colours

with LED backlight,

64 MB SDRAM

Freescale i.MX21 350 MHz

Bluetooth

SDIO supported

Integrated loudspeaker and microphone, VOIP

1 x

protected against splashing water and dust

1.5 m on concrete, all 6 sides

Power supply Rechargeable battery Backup battery

Power adaptor

Housing

Weight

Working temperature

Integrated modules

Scanner RFID reader

Card reader Camera

Imager

GPS receiver

External connections

GPS mouse

Accesssories

Sync. and power cable

BackPack

Hand strap with stylus

Cradle for desktop and vehicle

Powerscan with long-range laser scanner and additional battery Li-lon

RS232 via cradle

3,6 V / 2000 mAh

basic configuration tt8000C

depending on model

TECTUS reserves the right to change any information or data in this document without prior notice. The distribution and the update of this document is not controlled. TECTUS declines all responsibility for the use of products with any other specifications but the ones mentioned above. Any additional requirement for a specific customer application has to be validated by the customer himself at his own responsibility. Where application information is given, it is only advisory and does not form part of the specification.



Handheld Series tt8000

The best orientation of the PDA to read LF GLASS TAG, LF DISC TAG and HF ISOCard you can see in the following pictures:

LF GLASS TAG vertical to PDA head

LF DISC TAG parallel to PDA head

HF ISOCard or other HF TAG parallel to BackPack



UHF - Ultra High frequency - 868MHz

For the UHF readers a special hand strap in which the UHF antenna finds its place was developed. Placing the antenna outside of the BackPack guarantees an optimal readability without lowering the ease of use.

50mW (for TPP-80-tt8000 provides about 0,5 ...1 m read range*)
200mW (for TPP-80-tt8000 provides about 1,5 ...2 m read range *which depends always from the environment)







tt8000 with black BackPack and ext. UHF antenna in the big hand strap



