

Memor2000
the hand-held
terminal with
processing
power.
Download
registers and
process data
in custom
applications.



Fully integrated RFID read/write functionality for Tag-it and I*Code smart labels.



Fully integrated RFID read/write functionality for MIFARE.



Fully integrated RFID/Laser combination

Memor2000 RFID

13,56 MHz solutions

Memor2000 RFID for Tag-it and I*Code

The Memor2000RFID hand-held terminal reads and writes to Tag-it (Texas Instruments) and I*Code (Philips Semiconductors) smart labels. Smart labels employ radio frequency identification (RFID) technology. Each printable and flexible label is a transponder with an integrated circuit and an antenna. The label does not require a battery as it receives energy together with information from the Memor2000 read/write module at distances of up to 70 mm.

Memor2000 RFID for Gemplus

Fully integrated RFID read/write functionality for high frequency 13,56 MHz tags, from Gemplus.

Memor2000 RFID for MIFARE

The Memor2000 MIFARE terminal reads and writes to "contactless smart cards" based on MIFARE technology from Philips. The operating distance is up to 15 mm. The card, which has a memory capacity of up to 64 kbits, takes its power from the radio field produced by the reader. MIFARE offer a high level of security, which makes them particularly suitable for electronic cash, smart ticketing and ID-systems. Data communication between the reader and the card is encrypted.

Memor2000 RFID/Laser

The Memor2000 RFID/Laser combination model reads and writes contactless RFID as well as read barcodes. Barcode users can retain existing barcode systems at the same time as they phase in RFID tags with their unique advantages. Parallel use of barcode and tags would otherwise require two separate hand-held terminal systems to read/write data. The RFID/Laser combination has a reliable RFID performance up to 60 mm, and also decodes all common types of barcodes. The operating distance for barcode reading is up to 50 cm.



We make data collection easier

Everything you need to get started with RFID data collection. A complete Start-up Kit.



- Memor2000 RFID hand-held terminal
- Memor2000 DS-S Docking Station
- Cable
- Software Development Package - Communication Tool
- Software Documentation

Technical Specification Memor2000

PHYSICAL CHARACTERISTICS

Display

4 lines with 20 characters per line at default cell size. LCD supertwist.
Active viewing area 56.35 mm x 20.75 mm.
Dot size 0.42 mm x 0.60 mm.
Dot pixels 120 dots x 32 dots.
Cell size 8 x 6 pixels, at default cell size.
Full graphic capability.

Keyboard

With 27 coated rubber keys.
Alpha characters entered by pressing two adjacent keys.

Size and Weight

L: 186 mm H: 27 mm (H: 31 mm display)
W: 52 mm (W: 77 mm display)
235 gram (8 oz) incl batteries

Operating temperature

-10°C to +45°C

Storage temperature

-20°C to +55°C

Other

Withstands drop from 1,2 meter (4') onto concrete.
Conforms to EN 50 081-1 and EN 50 082-1.
Comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules.

OPERATING CHARACTERISTICS

CPU

NEC V25 at 8 Mhz (instruction compatible with Intel's 8088)

Operating System

M/2-DOS

Memory

SRAM 256KB--1MB containing disk and executing area.
3 year battery back up on all RAM
FLASH 256 KB containing disk and operating system.
FLASH can be erased and programmed in system.

Sound

Internal buzzer, programmable frequency and duration.

Clock

Real time clock with alarm feature.

Power supply

2 AA/R6 Alkaline battery or rechargeable batteries as an option.
3 to 4 weeks operation in normal use.
Battery is field replaceable without loss of data.
Multi stage "battery low" warning system.

Input/Output

Built in IR link, serial channel COM1:, normally 19.200 BPS, for connection to communication cradle.

Peripherals

- Docking station (CCIR) with RS232 and RS485 connections.
- Docking station (DS-S) with 2xRS232 connections and battery charging
- Both models cordless IR connection with the handheld.
- Standard printers and modems can be connected via docking stations.

SOFTWARE

Software development

By using a Borland C/C++ compiler, application programs can be fully developed and tested on a standard PC. The resulting program is downloaded to Memor2000 where it can be stored on the RAM-disk or on the FLASH-disk.

Application generator

An application generator (MPG) is available for the non programmer. With this tool users can easily develop application programs just by defining display pictures and keyboard functions. The MPG runs on a PC.

Communication

Communication solutions are available for all types of systems. Well proven solutions for DOS, 16-BIT Windows and 32-BIT Windows.

MS-DOS is a registered trademark of Microsoft Corporation.
Tag-it is a registered trademark of Texas Instruments.
1 Code is a registered trademark of Philips.

Patent pending

Minec Systems reserves the right to change this specification without notice

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