

Operational description

HW 8660 / US
Base Station / US

Version 1.00



HÖFT & WESSEL

General

Please note, that the internal name "HW8660 / US" is equivalent to the product name "Base Station / US".

The HW8660 / US is a PC-compatible computer for radio connection of mobile data registration devices with a central data processing system. The actual function mode is a result of the installed operating system and application software.

Operating elements

The HW8660 / US does not contain usual operating elements. It is exclusively operated via communication interfaces depending on the installed operating system resp. application software. On the rearside of the HW8660 / US a little opening allows to activate the reset key.

Display elements

- 11 LEDs for indication of different operating states (power supply, network and radio).

Communication interfaces

- Ethernet (10BASE-T acc. IEEE 802.3) for connection with a network (LAN)
- Four RS232-interfaces for connection with serial devices (e.g. terminals)
- Centronics-interface for connection with parallel printers
- 1 radio interface for connection with up to 4 mobile devices

Power supply

- Power supply unit

Initiation

- Connect HW8660/US with Ethernet-LAN and power supply. The system starts automatically.

Processor components

The HW8660/US mainly contains following components:

- Base board
 - a) Ethernet-chip (10BASE-T acc. IEEE 802.3 standard)
 - b) UART-controller with 4 channels (two channels for communication with radio module, two for connection with serial devices / RS232)
 - c) Reset-logic for initialization of radio module
 - d) Timer-component for high-resolution time measurement
- PC-compatible PC/104-computer (Dr.Berghaus PC/104 520 LC) with two RS232-interfaces, and Centronics-, Keyboard-, Floppy- and IDE-interface
- Memory expansion board TMB104 with PC/104-interface (battery buffered SRAM-memory with fast access time; can be used in conjunction with a file system to store frequently changed files, e.g. transaction data)
- ChipDisk (Flash-memory with controller provides an IDE-compatible high-capacity storage for the PC/104; will be used in conjunction with a file system for storage of infrequently changed files, e.g. operating system, application program, configuration files)
- 1 radio module HW86020 for connection with mobile data registration devices