



Meinberg Radio Clocks

Lange Wand 9
31812 Bad Pyrmont, Germany
Phone: +49 (5281) 9309-0
Fax: +49 (5281) 9309-30
<https://www.meinbergglobal.com>
info@meinberg.de

GPS167PC: GPS Receiver for Computers (ISA-Bus)

GPS Slot Card GPS167PC

GPS Slot Card GPS167PC with ISA Bus

The **Windows** driver package includes a time synchronization service which runs in the background and adjusts the Windows system time continuously and invisibly. This package also includes a monitor program to enable the user to check the status of the device and time adjustment service. If the monitor program is run with administrator rights, it can also be used to modify configurable parameters.

The **Linux** and **FreeBSD** driver packages include a kernel driver which allows the product to be used as a reference time source for the NTP daemon included in most Unix-like operating systems. This also allows the computer to be used as an NTP time server to provide accurate time to NTP clients on the network. Some command line tools can be used to modify configurable parameters and monitor the status of the clock in use.

Please contact Meinberg's Support Team for more information on using the card with other operating systems: [1]techsupport@meinberg.de.

The device's serial port is not required for operation but can be used to update the card's firmware, or to provide another computer with the current time via a serial time string.

Important Note

This product is no longer available and may have been replaced by a newer product. We will, of course, continue to provide support for units that have already been purchased and are still in use. Please contact our [2][Sales Department](#) for further details.

This product has been discontinued and has been replaced with: [3]

Key Features

- IBM PC/XT/AT Interface
- 2 Time Trigger Inputs
- Pulses per second and per minute
- Periodic interrupts
- RS-232 interface
- Settable Base Address
- DCF77-simulation

- Included GPSANTv2 antenna uses downconverter technology to enable long transmission routes of up to 1100 m (1200 yards)
- DC-insulated antenna circuit
- Driver software for all popular operating systems
- Flash-EPROM with bootstrap loader

Characteristics

Receiver Type	6 channel GPS C/A-code receiver
Status Indicators	Fail-LED shows that the internal timing has not been synchronized or that a system error occurred Lock-LED shows that the calculation of the position has been achieved after reset
Type of Antenna	Included [4] GPSANTv2 antenna with innovative downconverter technology that allows transmission routes of up to 300 m using RG58 cable, 700 m using RG213 cable, and 1100 m using H2010 Ultraflex cable
Synchronization Time	Max. 1 minute in normal operating conditions Max. 25 minutes (average 12 minutes) upon first initialization or in the absence of saved satellite data
Pulse Outputs	Pulse per second (PPS) and pulse per minute (PPM). TTL level, pulse width: 200 msec
Accuracy of Pulse Outputs	< ± 250ns
Interface	Single serial RS-232 interface
Data format PC interface	IBM PC/XT/AT Bus Binary, byte serial (compatible with Meinberg DCF77 Slot Card PC32)
Serial Time String Output	Baudrate: 300, 600, 1200, 2400, 4800, 9600, 19200 baud Framing: 7N2, 7E1, 7E2, 8E1, 8N1, 8N2 Output string: 32 ASCII characters with date, time and status information
Time-Trigger inputs	Resolution: 100 nsec, triggered by falling TTL slope Time of trigger event readable via RS232-interface
Electrical Connectors	9 pin sub D female connector BNC female connector
Backup Battery Type	When main power supply fails, hardware clock runs free on quartz basis, almanac data is stored in RAM Life time of lithium battery min. 10 years
Operating Voltage	+5V, ca. 300mA +12V, ca. 200mA

Board type	8 bit short expansion board
Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Options	Driver software for NetWare 3.1x/4x, Windows NT and OS/2 Additional RS232 interface Frequency output 10MHz

Manual

The English manual is available as a PDF file: [5][Download \(PDF\)](#)

Links:

[1] <https://www.meinbergglobal.com/english/products/>

[2] <mailto:sales@meinberg.de>

[3] <https://www.meinbergglobal.com/english/products/gps180pex.htm>

[4] <https://www.meinbergglobal.com/english/products/gps-antenna-converter.htm>

[5] <https://www.meinbergglobal.com/download/docs/manuals/english/gps167pc.pdf>