



#### Meinberg Funkuhren

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# **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. 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 Team 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) -- with Ultraflex H2010 cable

- DC-insulated antenna circuit
- Driver software for all popular operating systems
- Flash-EPROM with bootstrap loader

## **Characteristics**

Status Indicators	
Included [4]GPSANTv2 antenna with innovative downconverter technology that transmission routes of up to 300 m using RG58 cable, 700 m using RG213 cable 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 satellite data  Pulse Outputs  Pulse per second (PPS) and pulse per minute (PPM). TTL level, pulse width: 20  Accuracy of Pulse Outputs  **\frac{\pm}{2}\$ 250ns  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 BNC female connector Upon loss of power supply to card, the hardware clock runs independently using	
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BNC female connector  Backup Battery Type  Upon loss of power supply to card, the hardware clock runs independently using	
BNC female connector  Backup Battery Type  Upon loss of power supply to card, the hardware clock runs independently using	
on-hoard quarty oscillator. Almanae data remains stored in hattery-hacked PAM	the
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
- $\hbox{[3] https://www.meinbergglobal.com/english/archive/gps183pex.htm}$
- $\hbox{[4] https://www.meinbergglobal.com/english/products/gps-antenna-converter.htm}\\$
- $\hbox{\cite{thm:linear} $[5]$ $https://www.meinbergglobal.com/download/docs/manuals/english/gps167pc.pdf} \\$