



## Meinberg Radio Clocks

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## GPSGEN1575: GPS signal converter/diplexer (4-port)

Module for reconverting the Meinberg intermediate frequency to the original GPS frequency.

### 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This product is no longer available and may have been replaced by a newer product.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 [1][Sales Department](#) for further details.

This product has been discontinued and has been replaced with: [2]

### Key Features

- Reconversion of the Meinberg GPS Antenna signal (35.42MHz) into GPS frequency (1575MHz)
- Pulse per second
- RS-232 interface
- Status output
- Included GPSANTv2 antenna uses downconverter technology to enable long transmission routes of up to 1100 m (1200 yards)
- Remote control and monitoring with included PC-software (COM0)
- Standard frequency outputs

## Description

The module GPSGEN1575 has been designed to reconvert the intermediate frequency of 35.42MHz transmitted on the antenna cable of Meinberg GPS clocks to the GPS frequency of 1575.42MHz. This technology allows the connection of GPS receivers of other manufacturers working without IF-technique to a Meinberg antenna with up to 300m of coaxial cable RG58 (or even up to 600m with RG213) without the need of an additional amplifier. Besides the signal conditioning the eurocard includes a complete GPS receiver, which can be used as a reference in test applications.

## Characteristics

<b>Receiver Type</b>	6 channel GPS C/A-code receiver
<b>Status Indicators</b>	Two LEDs (Lock und Fail) and one TTL-output showing status of the clock
<b>Type of Antenna</b>	Remote powered (by GPSGEN1575) antenna/converter unit Length of cable up to 300 m (standard coaxial cable RG58) Antenna circuit 1000 V DC insulated
<b>Frequency inputs</b>	35.42 MHz
<b>Frequency Outputs</b>	10 MHz with TTL-level
<b>Pulse Outputs</b>	High-active pulse per second (PPS), TTL-level, pulse width 1 msec, accuracy better than $\pm 250$ nsec
<b>Interface</b>	Two independent serial RS-232-interfaces, menu configurable
<b>Serial Time String Output</b>	Baudrate: 300, 600, 1200, 2400, 4800, 9600, 19200 Baud data format: 7N2, 7E1, 7E2, 8E1, 8N1, 8N2 Time telegram: [3] <a href="#">Meinberg Standard-Telegram</a> , SAT, Uni Erlangen (NTP), SPA, NMEA0183 (RMC)
<b>Output frequency</b>	1575.42MHz (GPS L1C/A Code), distributed to four outputs
<b>Dimensions of the front panel</b>	12HP/3U (60mm x 128mm)
<b>Electrical Connectors</b>	64 pin rear VG edge connector DIN 41612 SMB connector for antenna 4 x BNC, output for GPS receivers
<b>Backup Battery Type</b>	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
<b>Operating Voltage</b>	+5 V DC
<b>Current Draw</b>	ca. 580mA
<b>Board type</b>	Eurocard

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<b>Board Dimensions</b>	160 mm x 100 mm, 1,5 mm Epoxy
<b>Mixing Frequency</b>	10 MHz
<b>Supported Temperature</b>	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
<b>Supported Humidity</b>	Max. 85 % (non-condensing) at 40 °C
<b>Warranty</b>	Three-year warranty
<b>RoHS Status of Product</b>	This product is fully RoHS-compliant.
<b>WEEE Status of Product</b>	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

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#### Manual

There is no online manual available for this product.: [4][Contact us](#)

#### Links:

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

[2] <https://www.meinbergglobal.com/english/products/gpsgen-mp.htm>

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

[4] <mailto:info@meinberg.de>