



## 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](mailto:info@meinberg.de)

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

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

### Key Features

- Reconversion of the Meinberg GPS Antenna signal (35.42MHz) into GPS frequency (1575MHz)
- Pulse per second
- 2 RS-232 interfaces
- 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)

### Description

The module GPSGEN1575/MP 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 700m with RG213) without the need of an additional amplifier. Besides the signal conditioning, the module 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 relay output showing status of the clock
<b>Type of Antenna</b>	Remote powered (by GPSGEN1575/MP) antenna/converter unit Length of cable up to 300 m (standard coaxial cable RG58) Antenna circuit 1000 V DC insulated
<b>Input signal</b>	Antenna input for Meinberg GPS antenna with IF-technology (35,42 MHz)
<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: [1] <a href="#">Meinberg Standard-Telegram</a> , SAT, Uni Erlangen (NTP), SPA, NMEA0183 (RMC)
<b>Output signal</b>	4 x 1575,42 MHz (GPS L1C/A-code) for GPS receivers without IF-technology 3 x 35,42 MHz (Meinberg IF) for Meinberg GPS receivers
<b>Form Factor</b>	19" aluminium case (1U) Schroff Multipac
<b>Power Supply Unit</b>	Standard PSU: 85 ... 264VAC, 47 ... 63Hz Several other power supply units (even for DC power supply) are available upon request.
<b>Protection</b>	IP20
<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.

### Manual

The English manual is available as a PDF file: [2][Download \(PDF\)](#)

**Links:**

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

[2] <https://www.meinbergglobal.com/download/docs/manuals/english/gpsgen-mp.pdf>