



Meinberg Funkuhren

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GPSGEN1575/MP: 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. 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 Team for further details.

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) -- with Ultraflex H2010 cable
- 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

Receiver Type	6 channel GPS C/A-code receiver
	6 Charmer GFS C/A-code receiver
Status Indicators	Two LEDs (Lock und Fail) and one relay output showing status of the clock
Type of Antenna	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
Input signal	Antenna input for Meinberg GPS antenna with IF-technology (35,42 MHz)
Pulse Outputs	High-active pulse per second (PPS), TTL-level, pulse width 1 msec, accuracy better than ± 250nsec
Interface	Two independent serial RS-232-interfaces, menu configurable
Serial Time String Output	Baudrate: 300, 600, 1200, 2400, 4800, 9600, 19200 Baud data format: 7N2, 7E1, 7E2,
	8E1, 8N1, 8N2 Time telegram: [2]Meinberg Standard-Telegram, SAT, Uni Erlangen
	(NTP), SPA, NMEA0183 (RMC)
Output signal	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
Form Factor	19" aluminium case (1U) Schroff Multipac
Power Supply Unit	Standard PSU:
	85 264VAC, 47 63Hz
	Several other power supply units (even for DC power supply) are available upon
	request.
IP Rating	IP20
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
Warranty	Three-year warranty
RoHS Status of Product	This product is fully RoHS-compliant.



WEEE Status of Product

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: [3] Download (PDF)

Links:

- [1] mailto:sales@meinberg.de
- [2] https://www.meinbergglobal.com/english/products/specs/timestr.htm
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