



## Meinberg Radio Clocks

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## GPS161xHS: Satellite Receiver with integrated power supply for DIN Mounting Rail

The module is suitable for applications that only need a serial RS232 interface for synchronisation.

The satellite receiver with integrated power supply is assembled in an aluminium profile case for 35mm DIN mounting rail. The module provides a serial RS232 interface.

### 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This product is no longer available and may have been replaced by a newer product.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

- RS-232 interface
- Included GPSANTv2 antenna uses downconverter technology to enable long transmission routes of up to 1100 m (1200 yards)
- DC-insulated antenna circuit
- Remote control and monitoring with included PC-software (COM0)
- Aluminium profile case for 35mm DIN mounting rail
- Flash-EPROM with bootstrap loader

## Characteristics

<b>Receiver Type</b>	6 channel GPS C/A-code receiver
<b>Status Indicators</b>	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
<b>Type of Antenna</b>	Included [3] <a href="#">GPSANTv2 antenna</a> 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
<b>Control Elements</b>	One covered key (BSL) to initiate firmware update via COM0
<b>Synchronization Time</b>	Max. 1 minute in normal operating conditions Max. 25 minutes (average 12 minutes) upon first initialization or in the absence of saved satellite data
<b>Interface</b>	One serial RS232 interface
<b>Serial Time String Output</b>	Baudrate: 300 to 19200 baud Framing: 7N2, 7E1, 7E2, 8E1, 8N1, 8N2 Time string: Meinberg Standard, Meinberg GPS, SAT, Uni Erlangen (NTP), SPA, NMEA0183 (RMC), Computime
<b>Electrical Connectors</b>	Female Sub-Min-D connector for serial interface power cord receptacle for AC-line
<b>Antenna Connector</b>	BNC connector
<b>Power Consumption</b>	ca. 4W
<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>	GPS161DHS: 19 ... 72VDC GPS161AHS: 100 ... 240VAC, 47 ... 63Hz GPS161DAHS: 100 ... 240VDC
<b>Firmware</b>	Flash-EEPROM, bootstrap loader
<b>Physical Dimensions</b>	105 mm x 85 mm x 104 mm (h x w x d) for 35mm DIN mounting rail
<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>Options</b>	<ul style="list-style-type: none"><li>- second independant interface as RS232, RS485 oder fiber optic</li><li>- PPS with TTL level into 50 Ohm</li><li>- PPS as fiber optic output</li><li>- 10 MHz with TTL level into 50 Ohm</li><li>- 10 MHz - 0.5 Vrms into 50 Ohm</li><li>- oscillator: OCXO LQ up to OCXO HQ, specifications look at [4]<a href="#">oscillator options</a></li></ul>

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**RoHS Status of Product**      This product is fully RoHS-compliant.

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**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.

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**Manual**

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

**Links:**

- [1] <mailto:sales@meinberg.de>
- [2] <https://www.meinbergglobal.com/english/products/gps165.htm>
- [3] <https://www.meinbergglobal.com/english/products/gps-antenna-converter.htm>
- [4] <https://www.meinbergglobal.com/english/products/specs/gpsopt.htm>
- [5] <https://www.meinbergglobal.com/download/docs/manuals/english/gps161xhs.pdf>