



## Meinberg Radio Clocks

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## AMX21/HS: Antenna Switch Unit for all Meinberg's GPS, GPS/GLONASS L1 and LF Antennas.

The switching unit AMX21/HS is designed for mounting on a DIN rail. The front panel integrates two switches, three LED indicators and three SMA connectors. The integrated power supply is available as an AC (AMX21DAHS) and a DC variant (AMX21DHS).

The antenna/converter units are connected to the switching unit by a 50 Ohm coaxial cable. The output of the switching unit - the chosen antenna signal - is connected to the receiver in the same way. It is possible to connect up to four receivers to one antenna by using an optional antenna diplexer.

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This product is no longer available and may have been replaced by a newer product.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

### Key Features

- Available as AC (AMX21DAHS) and DC variant (AMX21DHS)
- Easy mounting
- Aluminium profile case for 35mm DIN mounting rail
- Automatic or manual switching between two connected GPS Antennas

## Description

### Function:

The AMX21/HS switching unit expands the redundancy concept on to the antenna. A receiver can now be connected with two antenna/converter units. If an antenna fails or provides poor reception, the switchover to the other antenna will be done either automatically or manually, depending on the pre-selected mode.

The switchover between the two antenna/converter units can occur manually as well as automatically. A switch is available for choosing between the two operating modes. In the "Manual" mode a second switch can be used for direct switching between the two antennas.

In "Auto" mode the switching between the antennas depends on the number of visible satellites. This information is transmitted via time string (NMEA GGA format). The NMEA Time String is generated by the connected GPS receiver.

## Characteristics

<b>Status Indicators</b>	Two LEDs show which antenna is chosen FAIL-LED shows that no serial string is available
<b>Control Elements</b>	Two switches for choosing the operating mode and the antenna
<b>Electrical Connectors</b>	<ul style="list-style-type: none"> <li>* coaxial SMA female antenna connectors</li> <li>* 5pin screw terminal for connecting the power supply</li> <li>* RJ45 serial interface for connecting the receiver</li> </ul>
<b>Bandwidth</b>	DC to 6 GHz
<b>Operating Voltage</b>	20...60 V DC 100...240 V DC 100...240 V AC, 50...60 Hz
<b>Operation Voltage Antenna</b>	5...18 V DC
<b>Form Factor</b>	Fischer aluminium housing for DIN mounting rail
<b>Physical Dimensions</b>	105 mm x 85 mm x 104 mm (H x W x D)
<b>Supported Temperature</b>	0...45 °C
<b>Supported Humidity</b>	Max. 85 % (non-condensing) at 40 °C

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<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

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

#### Links:

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

[2] <https://www.meinbergglobal.com/download/docs/manuals/english/amx21.pdf>