

Meinberg Funkuhren

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GNSS MULTI BAND Antenna: Precision Multi Frequency Positioning

The GNSS MULTI BAND Antenna provides multi GPS L1/L2, GLONASS G1/G2/G3, Beidou B1/B2, Galileo E1/E5a+b plus L-band correction services coverage and is especially designed for precision multi frequency positioning. It provides superior multi-path signal rejection, a linear phase response, and tight Phase Centre Variation (PCV).

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.

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

Key Features

- Preformed Cable
- Allows direct transmission routes of up to 150 m when using Ultraflex H2010 coaxial cable
- Antenna Mounting Kit included
- Wide frequency ranges: 1164 MHz to 1254 MHz and 1525 MHz to 1606 MHz

Description

This antenna is ideal for precision timing applications and other applications where precision matters. It features a precision tuned, twin circular dual feed, stacked patch element. The signals from the two orthogonal feeds are combined in a hybrid combiner, amplified in a wide-band LNA, then band-split for narrow filtering in each band and further amplified prior to recombination at the output.

The antenna also has a strong pre-filter to mitigate inter-modulated signal interference from LTE and other cellular bands. The antenna offers excellent axial ratio and a tightly grouped phase center variation and covers from 1164 MHz to 1254 MHz and 1525 MHz to 1606 MHz.

Included in delivery is a Meinberg GNSS MULTI BAND Antenna incl. mounting kit, pre-assembled antenna cable and optional a Surge Voltage Protector MBG S-PRO.

GNSS Reception

GNSS reception can only be reliable if the antenna has a free view of the sky, therefore it needs to be installed at a suitable location, e.g. on a rooftop. The unit is remotely powered by the connected GNM receiver (via the antenna cable).

Characteristics

Frequency Range	Frequency ranges: 1164 MHz to 1254 MHz and 1525 MHz to 1606 MHz Overall LNA Gain: 37 dB typ, 35 dB min LNA Noise Figure: 2.5 dB typ at 25 °C Out-of-Band Rejection: Freq. Band E5/L2/G2 Frequency Gain 45 dB 30 dB > 1350 MHz > 45 dB Freq. Band L1/E1/B1/G1 Frequency Gain 30 dB > 1690 MHz > 30 dB > 1730 MHz > 40 dB
Antenna Connector	Type-N connector

Operating Voltage	5 V to 16 V, @ 24 mA (provided via antenna cable)
Form Factor	ABS plastic case for outdoor installation
Physical Dimensions	Dimensions of the GNSS MULTI BAND Antenna - [3] see datasheet .
Product Weight	1.6kg with mounting kit (Antenna cable 0.1kg / per meter)
Supported Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
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: [4][Download \(PDF\)](#)

Links:

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

[2] <https://www.meinbergglobal.com/english/archive/gnmantv2.htm>

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

[4] <https://www.meinbergglobal.com/download/docs/manuals/english/gnss-multi-band-antenna.pdf>