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INA - Inline Amplifier: High-Performance Inline Amplifier for GNSS Multiband

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The Meinberg INA-20 and INA-30 Inline Amplifiers are high-performance accessories for GNSS antennas, specifically designed to maximize the signal strength and quality in your GNSS applications.

Key Features

- Excellent typical noise figure of 0.8 dB
- Flawless passthrough of all GNSS frequencies
- Integrated surge protection
- 20 dB and 30 dB gain options available
- Robust IP68 protection
- REACH und RoHS-compliant EN 45545-2, EN 50121, EN 50155, and EN 61373 compliant
- Consistent performance at voltages from 3.6 V to 5.5 V DC

Description

These inline amplifiers are available with two gain variants (20 and 30 dB) for maximum flexibility in a variety of installation scenarios.

With a superb typical noise figure of 0.8 dB, these amplifiers provide reliable and precise signal amplification for signals in all GNSS frequencies. The robust design of the amplifier provides IP68 protection and is REACH and RoHS compliant.

This Meinberg inline amplifier features integrated surge protection that protects downstream electronics from overvoltage damage and prolongs the life of your antenna installation and connected devices.

Characteristics

Frequency Range	1164 MHz - 1615 MHz
Signal Propagation Delay	1176.45 MHz: 2.44 ns 1227.60 MHz: 2.67 ns 1575.42 MHz: 1.94 ns
Antenna Connector	Connector Type: Type-N, female Nominal Impedance: 50
Operating Voltage	3.6 V - 5.5 V DC
Current Draw	8 mA (typical)
Form Factor	Nickel-plated brass casing
Physical Dimensions	92 mm x 57 mm x 27 mm (3.63 in x 2.25 in x 1.07 in) (<i>W x H x D, including clamp</i>)
IP Rating	IP68
Product Weight	213 g (7.5 oz) 273 g (9.6 oz) incl. banding clamp
Supported Temperature	Operation: -70 °C to +85 °C (-94 °F to 185 °F) Storage: -70 °C to +95 °C (-94 °F to 203 °F)
Supported Humidity	Max. 95 % (non condensing) at 40 °C (104 °F)
Contents of Shipment	1x Banding clamp VA 927.1, pole clamp length = 200 mm (7.9"), for tubes 3/8
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: [2][Download \(PDF\)](https://www.meinbergglobal.com/download/docs/manuals/english/ina-setup-guide.pdf)

Links:

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

[2] <https://www.meinbergglobal.com/download/docs/manuals/english/ina-setup-guide.pdf>