

## Iridium Active Antenna - AD510

The AD510 provides superior performance with all the Iridium series satellite phones for external mounting in harsh or marine environments.

The Iridium Active Antenna is designed for use where long cable runs are required, far beyond the distances achievable with a standard passive device.



The AD510 is supplied with a flexible 40m RG213U coax cable, however bespoke lengths of up to 120m are possible, subject to coax cable type.

The radomes are 4 mm GRP/polyester mix whilst the base is milled from hard anodised aluminium, giving an attractive green finish, which is mechanical resilient and resistant to corrosion. The unit is designed for free air mounting and no ground plane is required.\*

Supplied as standard with mounting bracket and 40 metres of RG213U, 10.4mm diameter cable. Additional lengths available - pricing on request. Includes 1 meter interconnection coaxial lead for Iridium phone to antenna connection and power lead. Antenna Head is powered via the coax cable from a 12/24 volt DC supply connected to the break in box (DC power supply not included).

Mounting bracket is made from heavy duty alloy, vertical or horizontal pole mount up to 60mm - supplied with stainless U bolts and nuts.

**\* The AD510 must retain a constant loss characteristic over the length of the coaxial cable to remain with specification for use on the Iridium system. All cable lengths and therefore type, aside from the standard 40m offering, must be stated and supplied by AST together with the AD510 antenna.**



## Specifications - Antenna Head

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**Dimensions** 310 mm (L) x 150 mm (W) x 120 mm (D)

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**Weight** 3.2 kg (including bracket)

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**Operating Temperature** -40 °C to +85 °C

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**Antenna Head Connection** N Type

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**VSWR** < 2:1

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**Frequency** 1610 - 1630 MHz

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**Polarisation** Right Hand Circular

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**Antenna Type** RHCP Dipole

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**Inter Digital Filter Bandwidth** 12 MHz (Rx)

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**Power Requirements** External power source +9 to 36 VDC  
Max 500mA current

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## Specifications - Power Break in Box

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**Dimensions** 140 mm (L) x 70 mm (W) x 45 mm (D)

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**Weight** 0.4 kg

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**Connectors** TNC female (rf in), N female (rf out), 2 pin screw female (dc in)

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