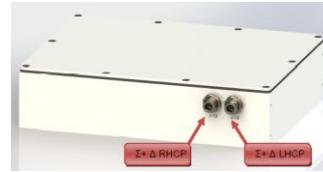


C band NOMAD Antenna



**Two Channels
Tracking Receiver
(option)**

TCP/IP connection:
cable link (RJ45)
or
Optical cable



ACU

19" rackable
model with touch
screen and joystick

OR

Laptop PC

**Your lightweight portable
Two axis solution
For your Data Link
&
Telemetry applications
available in:
L, S, C and X bands**

- Compact portable antenna with fully integrated functions : RF auto-tracking, GPS tracking, Transmit & Receive or Transmit only with 2 Telemetry channels (RHCP & LHCP)
- Easy operating through a friendly Man Machine Interface running on standard computer under Windows OS (Laptop, desktop, 19" rackable PC with touch screen and joystick).
- Pluggable flat panel antenna available in different frequencies such as L, S, C and X band.
- Two channels Tracking Receiver integrated into the pedestal (option)
- Optical link interface for RF and/or M&C link between antenna and control room (option)
- **Video camera in option**
- Rugged carry case in option

<p>RADIOELECTRICAL</p> <p>Type : Array under protective radome with SCM RF tracking circuits</p> <p>Frequency bands : 5090 – 5250 MHz (others bands available)</p> <p>Gain : 22 dBi @ 5.170 GHz</p> <p>Polarization : RHCP & LHCP</p> <p>3 dB beamwidth : 8° x 8° @ 5.170 GHz</p> <p>Side lobes : < 24 dB</p> <p>Power supply : 230 VAC +/-10%, 50 Hz, 280 VA</p>	<p>OPERATING MODES</p> <p>Elevation and Azimuth axes are independent:</p> <ul style="list-style-type: none"> - STOP : stop on El. and Az. ; brakes are switched on - POSITION : El. and Az. axes reach the angular positions received through the PC (0 to 360° with 12 bits ; step = 0.08°) - SLEW : El. and Az. axes speed adjustment (-20 to +20°/s with 8 bits ; step = 0.16°/s) - AUTO-TRACKING: Tracking on the RF signal - Tracking Receiver (option): Manual/Auto on the best channel - RATE MEMORY: when auto tracking is lost, the antenna continues traveling of Az and El with extrapolated speed. - AUTOMATIC AT : the antenna automatically switches from Slave or Position mode to Auto-tracking mode - GPS SLAVE : The ACU elaborates El. and Az. angles through the target GPS information received under NMEA 0183 format. - PRESET : Up to 10 El. and Az. angles can be stored - SURVIVAL : El. 90°, brakes applied on El. and Az. - BACK-UP: the operator can select a back-up mode among: GPS, Memory track and slew. - AUTOTRACKING SUPPORTED BY GPS for absolute security in aircraft tracking. - PROGRAM TRACK (option): Tracking according to predicted trajectory calculated from a pre loaded boards of points (El, Az, Time) - SEARCH (option): El & Az pointing in a box type pattern for automatic target acquisition. - ACQUISITION: Antenna parameters such as: Operating mode, El/Az angles, Speed, acceleration, AGC levels, ... are recorded in real time (50 ms step) in a file for post flight test analysis.
<p>MECHANICAL</p> <p>Flat array dimensions : 500 x 500 mm max</p> <p>Weight : 51 Kg with tripod</p> <p>Height : 1211 mm (with tripod & EL:0°)</p>	
<p>PEDESTAL</p> <p>Type : Elevation over Azimuth</p> <p>Elevation range : - 10° to + 90°</p> <p>Azimuth range : No limited (RJ & Slip rings)</p> <p>Speed : 20°/s on both axis</p> <p>Acceleration : 30°/s² on both axis</p> <p>Pointing accuracy: +/- 0.08° (12 bits Opt. Enc)</p>	
<p>ENVIRONMENTAL</p> <p>Storage temperature : -20° to +60°C</p> <p>Operating temperature : -20° to + 50°C</p> <p>Rain : Up to 50 mm/hour</p> <p>Relative humidity : 0 to 95% @ 25°C</p> <p>Wind : 50 Km/h (with tripod) : 80 Km/h (fixed)</p>	

CONTACT INFORMATION



Address : 9 rue Ravel – 91620 NOZAY, France

Phone : + 33 1 69 63 86 30 Fax: + 33 1 69 63 84 74

Contact : Mr. FOURREAUX Gérard Mobile: + 33 6 75 23 94 32 Email: gerard.fourreaux@aastel.com

<http://www.aastel.com>