

ARES 2.40m S Band NE7612-J





This station is designed for signals Receive in S frequency band.

A friendly Man Machine Interface installed on a PC allows its remote monitoring & control via Ethernet link.

Specifications

TM Antenna		
Source	Single channel monopulse	
Frequency	2200-2400 MHz	
Gain	31.2 dBi typ. @ 2300 MHz	
Polarization	RHCP and LHCP	
3 dB Beamwidth	~3.2° @ 2300 MHz	
Axial ratio	< 3 dB	
Side lobes	< 17 dB	
Mechanical specifications		
Elevation range	-5° to +90°	
Azimuth range	Unlimited (Continuous rotary joint)	
Rotation speed max	≥ 20°/s	
Pointing accuracy	± 0.08° (in manual mode)	
Total weight	~300 kg	
Color	White RAL9003	

Environnemental specification	
Storage temperature	-30°C to +70°C
Operating temperature	-10°C to +55°C
Rain	Up to 50 mm/hour
Relative humidity	0 to 100% (outdoor)
Wind resistance	80 km/h
Electrical specification	
Pedestal peak consumption	1.6 kVA, 210-240 VAC, 50Hz



<u>Options</u>

Other frequency bands on demand Up to 16 bits digital encoder (0.005° pointing accuracy) Rotation speed on demand Inertial measurement unit (North and level) Tracking receiver Embedded GPS

Antenna control unit (ACU)

The dedicated software, through the color display, provides a user friendly interface (see below non contractual example of ACU screen) The software can easily be customized for user's needs.

🕎 Date:19/05/2017 09:04:41		
🔀 Menu 🛛 👰 Pre-Program Track	🜔 Hyptra	Acquisition 😈 Exit
Current Posadon	ALARM	Sor 3rd Switch © High Switch © Coursed Position 78.93
270* ST 92.97 Requested Pos	AT FILTER F1 • F2 •	0" ((ST))180" 79.01 Requested pos
180 ⁴ Аz speed: 0.00 °/s	Long E 0.000 Lati V 0.000 N 0.094	Low Switch Sind Switch El speed: 0.00 %
OPERATING MODES	Alti (Km) 0.361300 1.000 DIST 10.448 (Km)	SPEED COMMAND
AZIMUTH	AT TRACKING AT BY GPS	1 '/s 1 '/s
$\begin{array}{c c} STOP & \longleftrightarrow & STOP \\ \bullet & \bullet & \bullet \\ PC & \longleftrightarrow & PC \\ \bullet & \bullet & \bullet \\ \end{array}$		AZIMUTH ELEVATION -60.0 to 60.0 °/s -60.0 to 60.0 °/s
$\begin{array}{c c} SC \\ \odot \\ \end{array} \begin{array}{c} & & \\ & \\ & \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	AT Threshold : 55%	Full screen 37 5 L North 27 5 Reset
$ \begin{array}{c c} AT & \longleftrightarrow & AT \\ \hline 0 & 0 & \odot \\ \hline MANU & \longleftrightarrow & MANU \\ \hline 0 & 0 & \odot & 0 \\ \hline \end{array} $	AT SIGNAL LEVEL	282.5% WestEast
TRACK TRACK	0% 20% 40% 60% 80% 100%	247.2° 225° 50 135°
AT AUTO AT EXTRAPOL SEARCH	41% <u>*</u> 67% <u>*</u>	Fix Point MANUAL GPS TT

Operating modes

STOP, PC, SC, Manual, GPS, AT, fixed points, Survival, GPS assisted AT

Link to website

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