

# B20G-N-AIS

## Mast mount/side mount collinear

### Automatic Identification System 161.975-162.025 MHz

The B20G-N-AIS is specifically designed for Automatic Identification System (A.I.S.) for use in a marine environment. All components used in construction are of the highest quality to ensure the antenna will survive the harshest environment for many years.

The benefit of A.I.S. is that a vessels information such as weight,length, speed and destination is broadcast to all vessels in the near vicinity and online, to improve safety on the water. Please check with your local nautical authority for requirements of A.I.S. on your vessel.

Mounting hardware, coaxial feeder cables, water-proofing, connectors and other installation accessories are all available separately.

Construction	White tapered fibreglass radome, 304 stainless steel mount section and external termination
Frequency range	161.975-162.025 MHz - VHF AIS1 & AIS2
Tuning	Factory
VSWR	<1.5:1
Gain	5.1 dBi
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Connector	N-type female in base of mount section - no cable
Height	3.2 metres
Weight	1.5kg
Mount section	500mm x 32mm dia. - 304 stainless steel
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS Side mounting: 2 x NSM-CL3642
Mounting position recommended	Mount as high on your structure/tower as possible ensuring no obstructions.

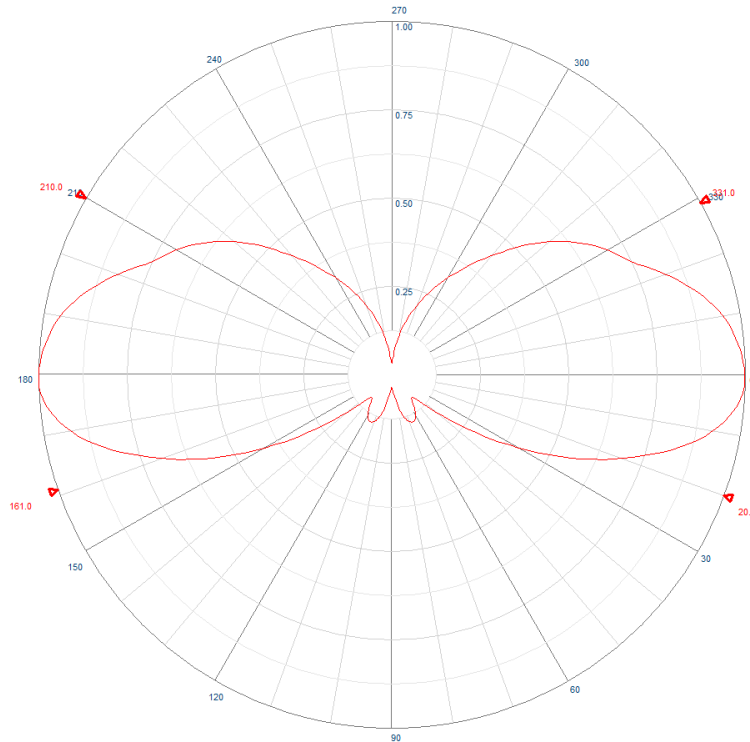


N-type female in base of mount section

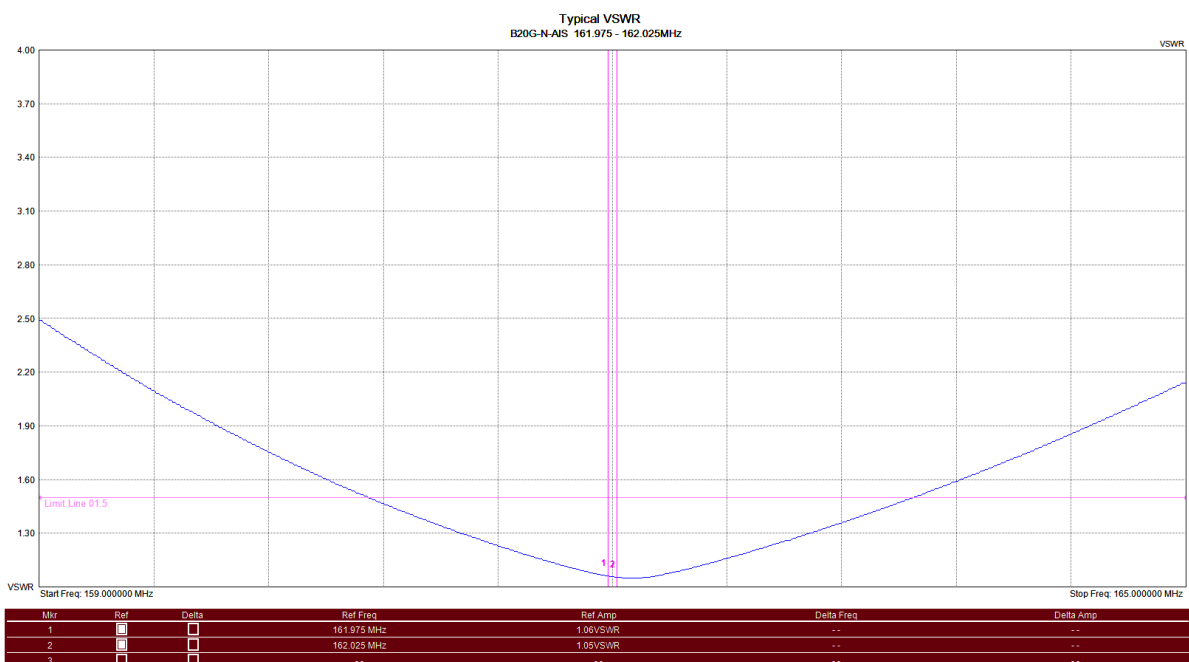


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Example radiation pattern



Typical VSWR

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Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>	 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>
 <p>EB1-SS - requires 2 304 stainless steel parallel clamp</p> <p>Boom: 20-40mm capability Mount pole: 25-45mm capability</p>	 <p>UB3-SS 304 stainless steel parallel clamp</p> <p>Boom: 20-32mm capability Mount pole: 20-50mm capability</p>
 <p>UB2-SS 304 stainless steel right-angle clamp</p> <p>Boom: 20-50mm capability Mount pole: 20-50mm capability</p>	 <p>RB8 Galvanised steel right-angle clamp</p> <p>Boom: 20-50mm capability Mount pole: 20-50mm capability</p>
 <p>NSM-CL3642 Toughened nylon wall/side mount</p> <p>Boom: 32mm Mount hole: 16mm</p>	

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave)</p> <p>P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave)</p> <p>P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>