



Antennas

- TENTA-11
- ANT-21

▶ VHF Antenna, TENTA-11

Built for tough environments, the TENTA-11 antenna completes AIS's VHF requirements and it may also be used with other VHF ready devices. This fiberglass antenna is highly sensitive and has a notable high performance.

▶ GPS Antenna, ANT-21

ANT-21 is a maritime GPS antenna designed for the tough marine environment. This antenna enables the required GPS function for AIS systems, chartplotters, and other navigational devices. Many AMEC devices are GPS ready, simply connect this GPS antenna to see your vessel location, speed, and other information.

TENTA-11 FEATURES

- Maritime environment VHF antenna
- 100% compliant with all AMEC AIS devices

ANT-21 FEATURES

- Built-in LNA (Low Noise Amplifier)
- Compliant with IEC60945

SPECIFICATIONS

► VHF ANTENNA, TENTA-11

ELECTRICAL

Frequency Range	156 MHz ~ 163 MHz
Gain	2.86 dBi
Polarization	Vertical
VSWR	1.5 max
Impedance	50Ω
HPB	65.77 degree
FBR	1.81 dB

ENVIRONMENTAL

Operating Temperature	-30°C~75°C
Storage Temperature	-30°C~75°C
Operating Humidity	95% RH at 40°C

PHYSICAL

Dimension	36 mm (ψ) x 1,200 mm (L)
Weight	860 g (w/o mount)
Color	White
Connector	PL-259 (female)

► GPS ANTENNA, ANT-21

ELECTRICAL (GPS ANTENNA)

Center Frequency	1575.42 MHz ± 2 MHz
Bandwidth	10 MHz
VSWR	1.2 typical (1.5 max)
Axial Ratio @ Zenith	3.0 dB typical
Gain @ 10°Elevation	-1.0 dBi typical
Polarization	RHCP (Right Handed Circular Polarization)

ENVIRONMENTAL

Operating Temperature	-30°C~75°C
Storage Temperature	-30°C~75°C
Operating Humidity	95% RH at 40°C
Rain and Spray	Compliant with IEC 60945
Vibration	Compliant with IEC 60945
Corrosion (Salt Mist)	Compliant with IEC 60945

LNA (Low Noise Amplifier)

Frequency	1575.42 MHz
Gain	28 dB typical @ 3.3V
VSWR	1.92 max
Noise Figure	1.5 dB typical
Out-Band Attenuation	20 dB min @ fc ± 50 MHz
DC Power Input	3 ~ 5 V
Power Consumption	4.8mA @ 2.7V / 6mA @ 3.3V / 10.43mA @ 5V

PHYSICAL

Construction	Hermetically sealed, fully waterproof
Dimension	90.5 mm (D) x 108.5 mm (H)
Mounting	92 mm (L) x 60 mm(W)
Weight	105 g (w/o cable and mounting)
Connector	TNC (female)
Cable Type	RG-58
Cable Length	10M

OVERALL PERFORMANCE (GPS ANTENNA & LNA)

Frequency	1575.42 MHz	Axial Ratio @ Zenith	3 dB typical
Gain	30 dB typical	VSWR	1.2 typical (1.5 max)
Noise Figure	1.5 dB typical	Impedance	50Ω

Note: Specifications are subject to change without prior notice.



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The AIS Specialists

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