



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

ELETRICAL (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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