



Product Overview

GA-22 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.

Key Features

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

Specifications

▶ GPS ANTENNA

Center Frequency	1575.42 MHz \pm 2 MHz
Band width	10 MHz
VSWR	1.5 Max (Typical 1.3)
Axial Ratio	1.5 dB Typical
Radiation Efficiency	-60%
Polarization	Right Hand Circular Polarization

▶ LNA (Low Noise Amplifier)

Frequency	1575.42 MHz
Gain	29 dB Typical @ 3.3V dc
VSWR	2 Max
Noise Figure	0.95 dB Typical
Out-Band Attenuation	20 dB min. @ $f_c \pm 50$ MHz
DC Power Input	DC 3~5 V
Power Consumption	5mA @ 3.3V, 8.5mA @ 5V
Output Impedance	50 Ω

Note: Specifications are subject to change without prior notice.

▶ GPS ANTENNA & LNA

Frequency	1575.42 MHz
Gain	31 dB Typical
Noise Figure	0.65 dB Typical
Axial Ratio @ Zenith	1.5 dB Typical
VSWR	1.5 Max (Typical 1.3)
Impedance	50 Ω
Connector	TNC type

▶ ENVIRONMENTAL

Operating Temperature	-30 $^{\circ}$ C~+55 $^{\circ}$ C
Relative Humidity	95% @ 40 $^{\circ}$ C, non-condensing
Water Resistance	IP67

▶ PHYSICAL

Dimension	81 mm (D) x 81 mm (H)
Mounting	70 mm(D) x 42 mm (H)
Weight	303 g (incl. cable and mounting)
Connector	TNC (female)
Cable Type	RG-174
Cable Length	10M

Sales Contact

For more information, please contact your local representative or Alltek Marine at

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Distributor/Dealer