

VEHICULAR ANTENNA

9320 AUTOMATIC TUNING WHIP

DTC
A CODAN COMPANY

Codan's 9320 Automatic Tuning Marine Whip Antenna is designed for maximum performance in marine conditions. The 9320 is intended for installation on all types of small ships and boats with limited space, where large HF antennas are difficult to install and consistent communication is required.

KEY FEATURES

- Continuous 1.6 to 30 MHz coverage
- 150W RF power rating
- Excellent radiation efficiency
- Fast memory tuning
- Integral broadband receiver amplifier
- 2G and 3G ALE and Frequency Hopping Compliant
- Rugged MIL-STD 810G certified design
- Up to 200 memory channels
- Easy to install on small yachts and workboats
- Designed to withstand harsh marine environment

FAST TUNING

The 9320 marine antenna incorporates microprocessor controlled stepper inductor which tunes the antenna to any frequency stored in the memory bank of up to 200 channels in less than half a second. Intelligent adaptive matching algorithm continuously monitors any VSWR variations caused by flexing of other collocated V/UHF antennas and vessel structures in rough weather. The 9320 antenna automatically re-adjusts matching circuit to VSWR 1.6:1 or less at every new tune ensuring the HF transceiver operates at full RF power.

HIGH RADIATION EFFICIENCY

A built-in wideband receiver amplifier makes the 9320 marine antenna sensitive to even the weakest signals over entire frequency range ensuring crystal clear reception and faster connection in 2G and 3G ALE modes. With a low insertion loss RF circuit, the 9320 antenna is capable of RF power duty cycles, required for extended analogue/digital voice and data transmission.

EASE OF INSTALLATION

The 9320 marine antenna is implemented in a compact self-contained form factor optimised for easy and frequent re-installations using simple cabling system and mounting brackets. It can be installed on metal hulled vessels as well as most small yachts and cabinless workboats made of fiberglass or inflatable rubber.



RUGGED DESIGN

The 9320 antenna is a marine version of the 9300 automatic tuning antenna system acclaimed for its outstanding performance and reliability. Designed for harsh marine environments, the 9320 antenna comprises a premium stainless steel base, an epoxy coated fiberglass reinforced nylon exposure, and other marine grade parts and materials. Rugged and waterproof construction is capable of withstanding extreme wind loads and ship vibrations.

CONTINUOUS 1.6-30 MHZ COVERAGE

The 9320 antenna features continuous frequency coverage over the entire 1.6-30MHz HF frequency band permitting maximum utilisation of Codan HF transceiver spectrum capability. Excellent radiation performance and fast tuning of the 9320 antenna provides outstanding communication range and quality.

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GENERAL SPECIFICATIONS	
Transmit frequency range	1.6MHz to 30MHz
Receive frequency range	250KHz to 30MHz
RF power rating	150W PEP voice/data
MAX VSWR	1.6:1
Input impedance	50 Ω
Tuning speed specifications	725 ms average for new frequency 350 ms average for memory tune
Memory channels	200
DC operating range	10 - 30V DC
Current draw - tuning	3.2A
Current draw - static	60 - 110mA
Operating temperature	-40°C to +70°C
Protection	Reverse Polarity, Short Circuit, Over Voltage
RF connector style	RG58 UHF
Control connector style	8-PIN
MIL-STD-810	MIL-STD-810G Salt Fog, Immersion, Sand, Dust, Shock, Vibration
Ingress protection	IP67
Weight	5.4 kg
Dimensions	100 x 100 x 2490 mm
Mounting method	Single stud M16
Vehicle mount footprint	100 x 100 mm
Colour	White
Compliance	MIL-STD-461, IEC/EN 61000

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

Continuous transmission for periods greater than 10 minutes using digital modes may result in reduced radiation efficiency.

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