

VEHICULAR ANTENNA

3040 AUTOMATIC WHIP



CODAN
COMMUNICATIONS



The 3040 Automatic Whip Antenna is a low profile antenna, providing a mobile antenna solution for all families of Codan high frequency radios.

The combination of lightning fast tuning, compact form factor, and rugged construction all contribute to provide a state of the art mobile antenna tuner product.

HIGH PERFORMANCE

With a 125 W RF power handling capability, the 3040 can be used for voice and data operation over the full 2 to 30 MHz frequency band. The tuner has tune from memory time of less than 200 mS with unlimited memory capacity, and new frequencies are typically tuned in less than one second.

The extremely fast tuning capability and optimised antenna efficiency ensures maximum system readiness, and is always available to the operator.

RUGGED DESIGN

The 3040 is built to withstand the severe conditions that are often experienced in mobile high frequency radio deployments. The internal electronics are protected by a lightweight composite shroud and vibration absorbing mount to provide a product that is fully waterproof and compliant to MIL-STD-810F for temperature, immersion, vibration and dust ingress.

TRANSCEIVER INTEGRATION

The control interface of the 3040 is fully integrated with Codan HF transceivers so that tuning is transparent to the operator. The 3040 is designed for full compatibility with all modes of operation, including receiver scanning, ALE (Automatic Link Establishment) and data.

ACCESSORIES



3040 NVIS Antenna Kit

KEY FEATURES

- 2 to 30 MHz
- 125 W PEP
- Fast tuning 1 sec average
- Memory tune <150 ms
- Supports 2G and 3G ALE and Frequency Hopping compliant
- Integral Active Wideband Receiver Amplifier for scanning
- MIL-STD-810F (Temperature, Immersion, Vibration, Dust)
- Designed to MIL-STD-461



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SPECIFICATIONS

GENERAL

Frequency range	2.5 to 30 MHz (2.4 m, 7.9 ft Whip) 2 to 12 MHz (3.5 m, 11.5 ft NVIS)
Power rating	125 W PEP (voice and data)
Power consumption	0.4 A typical, less than 0.8 A typical while tuning
Input impedance	50 Ω
VSWR	Typically $\leq 1.5:1$
Tuning speed	New frequency 1 sec average, memory tune <150 ms
Memory channels	Unlimited

MECHANICAL

Temperature rating	-30°C (-22°F) to 60°C (140°F), 95% humidity
DC operating range	11 to 15.5 V DC (12 V DC nominal)
Protection	Open circuit, short circuit, over voltage, over temperature, voltage transients, high VSWR
MIL-STD 810F	Temperature, Immersion, Dust, Vibration
MIL-STD-461	Designed to standard
Dimensions	147 mm W x 167 mm D x 240 mm H; 5.8" x 6.6" x 9.4" (excludes spring and whip)
Weight	3.15 kg (6.9 lbs) including spring and whip
Mounting	M14 stud, 40 mm (1.6") long
Colour	Black

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