

# Autonomous Tunable Vehicular VHF Antenna

## ATA3090M

The ATA3090M is an autonomous tunable antenna for the 30 to 90 MHz frequency band that does not require any external control. It therefore offers a perfect solution to easily enhance existing radio systems.

This low profile antenna tunes automatically to use the optimum matching circuitry at the required frequency. The ATA3090M provides superior gain performance over traditional wideband antennas.

- No external control required - Easy upgrade for current radio systems
- Low profile antenna with superior gain performance - Gives up to 6dB better gain compared to a traditional passively matched antenna of same size
- Easy installation – Mechanically compatible with NATO / US pattern mounts
- Link budget improvement – Better gain and signal-to-noise ratio



Product details*	
Frequency range	30 - 90 MHz
Matching	PIN diode based active matching
Polarization	Nominally vertical
Antenna type	Monopole (ground plane required)
Radiation pattern	Omnidirectional
Gain	Measured patterns on request
VSWR	≤ 3.5 (on tuned band)
Nominal Impedance	50 Ω
Power rating	50 W
Power supply	24 VDC, 5 W (average)
Tuning speed	Max. < 150 μs, average < 50 μs (more details on request)
Standard color	Black
Radiator	Steel whip with shock absorption spring
Height	2000 mm
Weight	3.0 kg

Installation*	
RF connection	Female N-type connector
Power supply	Via 2-pin DC connector (C90-3102R10SL-4P)
Mounting	4 hole NATO / US pattern mount

\* Specific adjustments on request

Order number	
ATA3090M	Antenna as described above
TA3090M	Antenna with external control (see separate data sheet)