

# Tunable Vehicular VHF Antenna

## TA3090M

The TA3090M is a tunable antenna for the 30 to 90 MHz frequency band. This low-profile antenna can be tuned by remote control to use the optimum matching circuitry at the required frequency. It thus provides superior gain performance over traditionally matched wideband antennas. Its extremely fast tuning ability (based on PIN diode switching technology) makes the antenna suitable for most of the conventional modulation types.

- Low profile antenna with superior gain performance. Gives up to 6 dB better gain compared to a traditional passively matched antenna of same size
- Fast tuning to a new frequency band allows the antenna to be used in different kind of applications
- Supports also wide transmission bandwidths



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	< 30 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 and control	Circular MIL connector (more details on request)
Mounting	3/6-hole mounting pattern (more details on request)

\* Specific adjustments on request

Order number	
TA3090M	Antenna as described above
ATA3090M	Antenna with autonomous tuning (see separate data sheet)