

# Tunable Vehicular VHF/UHF Antenna

## TA30512M

The TA30512M is a tunable antenna for the 30 to 520 MHz frequency band. This low profile antenna can be tuned by remote control to use the optimum matching circuitry and electrical length at the required frequency. It thus provides superior gain performance over traditionally matched wideband antennas. The 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
- Fast tuning to a new frequency band allows the antenna to be used in different kind of applications
- Supports also very wide transmission bandwidths
- Electrical length tuning allows selecting the most suitable elevation pattern for a particular situation



Product details*	
Frequency range	30 - 520 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 (RMS)
Power supply	24 VDC, 5 W average
Tuning speed	< 30 μs (see Page 3)
Standard color	Black
Radiator	Upper part: Glass fiber coated whip Lower part: Aluminium alloy with shock absorption spring
Height	1920 mm
Weight	3.0 kg

Installation*	
RF connection	Female N-type connector
Power and control	Circular MIL connector (See Page 3)
Mounting	4 hole US pattern mount, see diagram on Page 3

\* Specific adjustments on request

Order number	
TA30512M	Antenna as described above

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