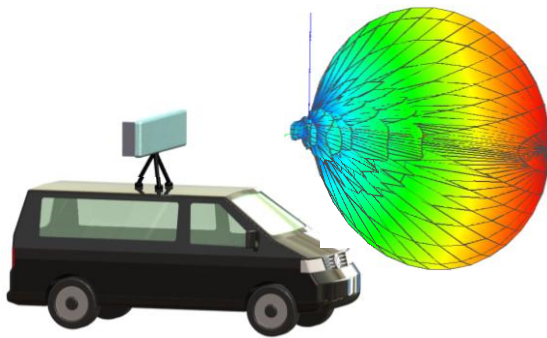


Vehicle Mounted Cellular Scanning Antenna

824 – 960 MHz, 1710 – 2170 MHz

Product Code: SECT-A0026

SPECIFICATIONS:



Product code:	SECT-A0026
Electrical:	
Frequency range	824 – 960 MHz 1710 – 2170 MHz
Gain (minimum on boresight)	15 dBi @ 824 – 960 MHz 17 dBi @ 1710 – 2170 MHz
VSWR	< 2:1, typical 1.5:1
Nominal impedance	50 Ω
Polarisation	Linear, vertical
Azimuth pattern	See graphs overleaf
Azimuth beamwidth	8.72° ± 1° @ 900 MHz 4.7° ± 1° @ 1750 MHz 4.3° ± 1° @ 1950 MHz
Elevation pattern	See graph
Elevation beamwidth	47° ± 1° @ 900 MHz 27° ± 1° @ 1750 MHz 21° ± 1° @ 1950 MHz
Connector	N-type male at base
Mechanical:	
Dimensions of antenna (excl magnetic tripod stand) (W x H x D)	< 2000 mm x 500 mm x 250 mm
When mounted, total height of antenna above roof of vehicle or shelter	< 1200 mm
Weight	< 20 kg (excl. mounting system)
Mounting	Vehicular mount - tripod with magnetic attachment
Colour	Per request
Environmental:	
Temperature range	Storage: -30 °C to +70 °C Operation -30 °C to +55 °C
Weatherproofing	IP 66 rain resistant (when mounted on a connector)
Shock and vibration	MIL-STD 810E 516.4: vibration category 8, shock 40 g
Exposed materials	Painted aluminium and stainless steel, E-glass and PC plastic.
Compliance	RoHS REACH

PRODUCT FEATURES:

- Narrow azimuth beam and low sidelobe levels for corridor scanning capability
- Rapid deployable magnetic vehicular mounting system allowing swivel adjustment of azimuth orientation
- Wideband full cellular coverage including GSM and UMTS
- Lightweight, compact design

APPLICATION AREAS:

- Cellular monitoring
- Tactical monitoring
- Cellular direction finding and target location

PRODUCT OVERVIEW:

This is a wideband cellular monitoring antenna designed to allow detection of mobile cellular devices passing through a geographical curtain.

The antenna is designed to provide the narrowest possible azimuth beamwidth that the 2 m width of the antenna can accommodate. In addition, sidelobe levels near 20 dB minimise the chance of false positives.

The system is designed for tactical mounting on the roof of a vehicle or shelter using a tripod system with magnetic mounting points. The tripod system allows manual adjustment of the antenna's azimuth orientation.

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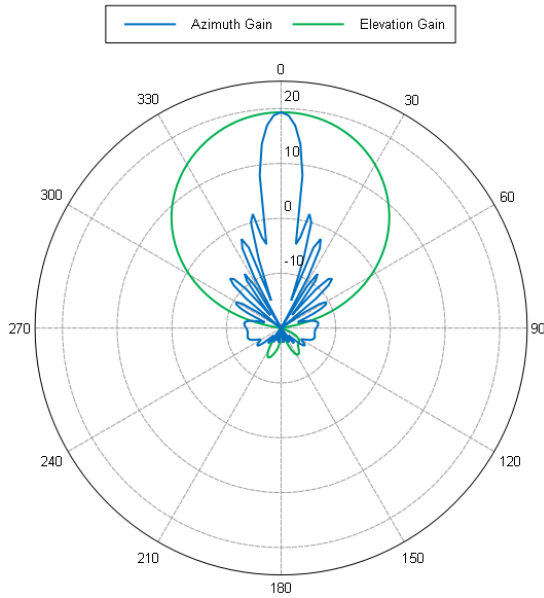
824 – 960MHz, 1710 – 2170MHz

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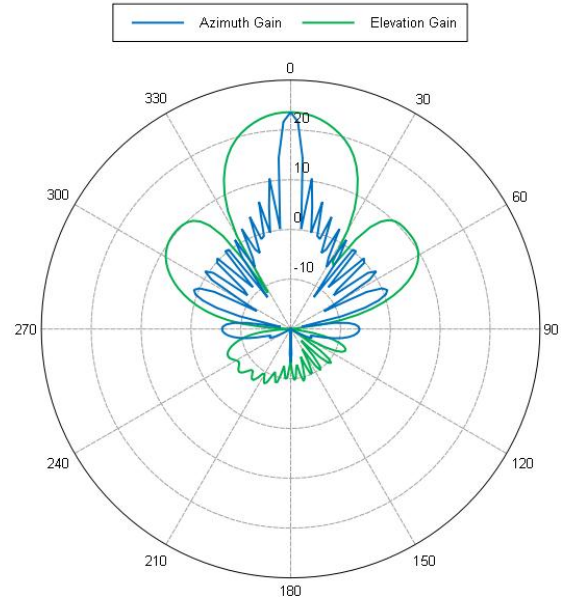
VERSION: 2.0

RADIATION PATTERNS

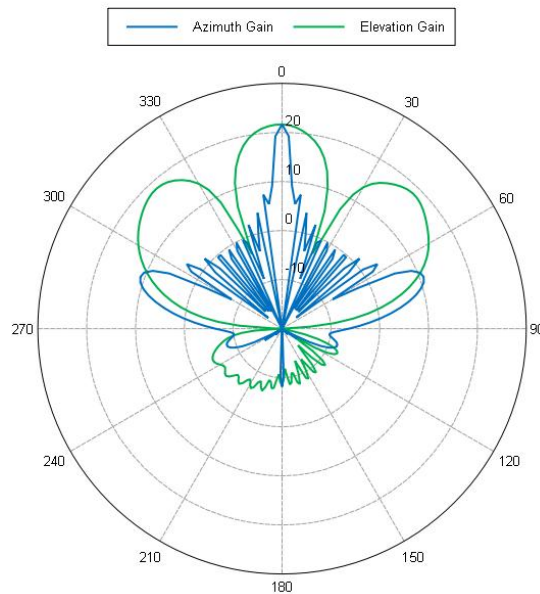
Patterns at 900 MHz



Patterns at 1750 MHz



Patterns at 1950 MHz



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DIMENSIONS

