

ASTRADRIVE

ANT-TRAIN

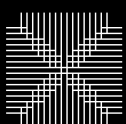
PRODUCT DATASHEET

The ANT-TRAIN antenna is specifically developed for high speed rail environments, providing reliable connectivity at train speeds up to 400 kmh.



The ANT-TRAIN innovative design features the ability to change the polarization by rotating the rear part of the enclosure and customizable mounting options, allowing seamless integration into different train roof configurations while maintaining optimal aerodynamic performance.

Antenna gain	11 - 13 dBi
Frequency range	4900 - 6425 MHz
Polarization	Dual



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TECHNICAL SPECIFICATION

Polarization	Dual-slant: linear, oblique Dual-pol: linear, vertical and horizontal
Beam width, Azimuth	57° - 45°
Beam width, Elevation	57° - 45°
VSWR	less than 1.5 (max 2)
Connectors	2 X SMA(m)
Isolation between ports	40 dB min
Front-to-back ratio	less than -15 dB
Cross polarization	less than -19 dB
Dimensions and weight*	380x321x208 mm, 8.1 kg
Lightning Protection	DC Grounded
Operating temperature	from -55°C to +65°C
Water and dust protection	IP66, IP67
Wind load	400 kmh - operational 450 kmh - survival
Environmental resistance	Flame Vibration Impact



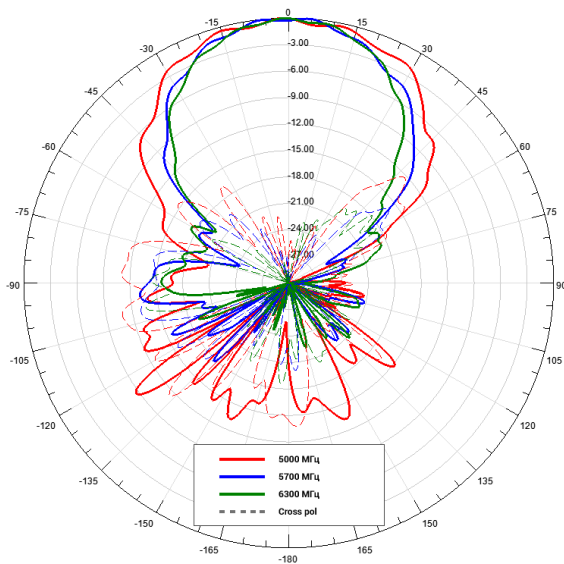
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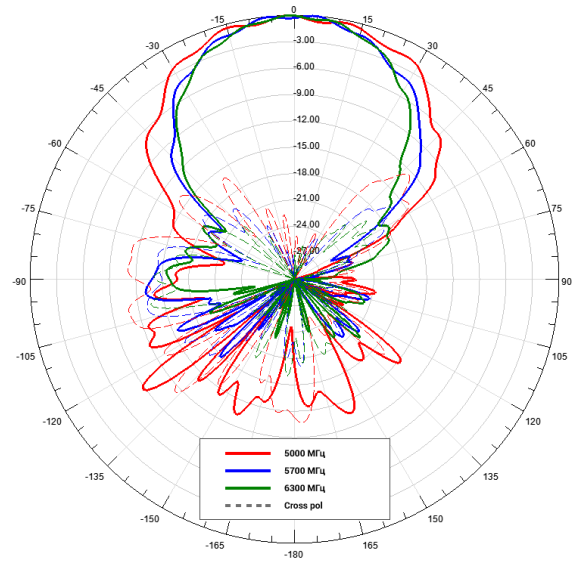
* Depends on configuration

RADIATION PATTERN

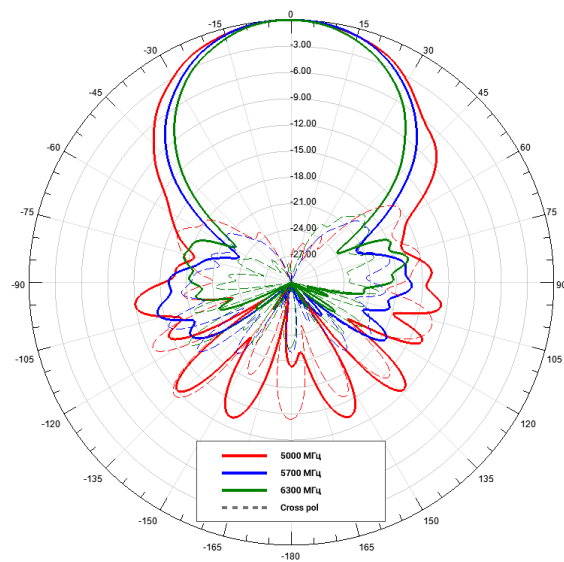
E-plane -45° pol



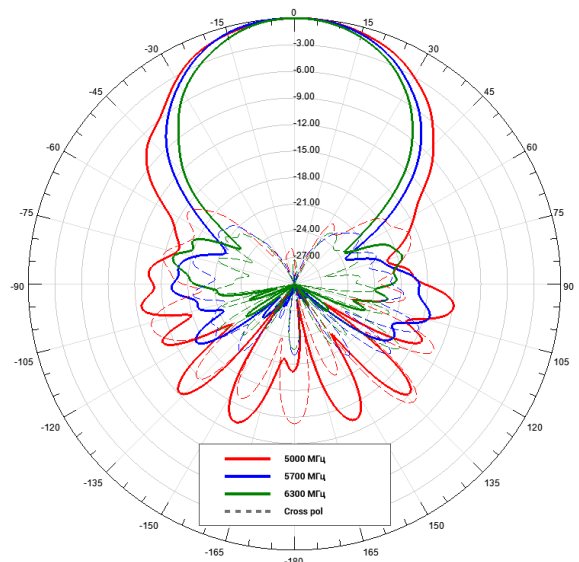
E-plane +45° pol



H-plane -45° pol



H-plane +45° pol



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