



**Rocket Science
Technologies**



4D Radar RS4D080

Picture for reference only, subject to actual product.

4D Radar RS4D080

Accurate. Reliable. MLFF Ready.

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RS4D080 is a high performance true 4D vehicle (**x, y, z Cartesians coordinates, Azimuth, Elevation, Angle**) speed detection radar which uses advanced algorithms to detect far and near digital wave forms and tracks upto 256 objects simultaneously across 8 direction and/or bi-directional lanes.

Key Features

- **Certified by NATRAX (homologation lab under Ministry of Heavy Industries and Public Enterprises, Government of India) @99.04% accuracy.** Is also Certified for FCC, Class B & all Environmental parameters
- Detects vehicle speeds exceeding 250 km/h and within a detection range of 300 meters
- Plug and Play, fully integrated with our in-house manufactured Over Speed LED Displays. Saves effort and resources for the System Integrators
- Functions in uni-direction and/or bi-directional modes, up to 8 lanes
- Operates in real time and sends signal to a maximum of 8 Nos. of VASD LED displays and the ANPR Cameras
- IP67 rating, all weather-proof, works in rain, snow, fog, strong winds, ice, dust etc.
- Robust and built for tough weather conditions with an operating temperature range of -40°C to +75°C. Environmentally certified for 9 different parameters vis. Shock, Vibration, Extreme Heat, Extreme Cold, Change of Temperature, Dry Heat, Salt Mist Spray test etc.
- Low power consumption of <4W, is non-taxing on the solar power supplies at the sites. Works on both active and passive/auxillary power source.
- PoE enabled (12VDC/3A)
- Compact and light weight
- Provides Point Cloud output to assist in vehicle classification
- Supports RJ45 Ethernet interface
- IP67 PoE connector interface
- Robust built with pressure die-casted Aluminium alloy and Polycarbonate housing
- In total compliance to Specifications and Standards as contained in Annexure – II of Schedule D of Advance Traffic Management System (ATMS) on Expressways/ National Highways

** Product information is subject to change without prior notice.*

Technical Specifications

Parameter	Minimum	Typical	Maximum	Units
Transmit Frequency	76	77	81	GHz
Transmit power EIRP		<20		dBm
Refresh time		24		ms
FOV - Azimuth	-60°		+60°	Deg
FOV - Elevation	-50°		+50°	Deg
Measurement Cartesians		x, y, z		coordinates
Average Power Consumption		< 2		W
Communication Interface	Ethernet, POE			
Speed Measurement Range	0.5 - 250+			Km/h
Applicable Speed Range		45		Ms
Speed Measurement Accuracy	99.04%			
Sensing Direction	Bi-directional			
Distance Measurement Range	10 – 300			Meters
Distance Measurement Accuracy	± 0.46			Meters
Antenna Performance				
Operating Voltage		12		V DC
Operating Current		3		A
Operating Temperature	-40		+75	°C
Storage Temperature	-40		+105	°C
Operating Humidity		5% ~ 90%		RH
Protection Class		IP67		
Dimension		128x122x33		Mm

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