

SNSMW505

Multi-Lane Traffic Speed Radar



Key Feature

- Supports Wi-Fi remote debugging and firmware upgrades
- Single-pole installation with maintenance-free operation
- Covers 1–6 lanes with a capture rate $\geq 99\%$
- Precise vehicle positioning with $\pm 0.5\text{m}$ accuracy
- Configurable capture distance range: 15–50m
- Supports three capture modes: approaching, departing, and bidirectional

Specification

Radar Characteristics	
Modulation Waveform	FMCW
Working Frequency	24 to 24.25 GHz
Center Frequency Offset	≤45 MHz
EIRP	20 dBm
Transmit Power (EIRP)	10 dBm
Response Time	50 ms
Detection Performance	
Trigger Consistency	≤±0.5 m
Capture Rate	≥99%
Detection Distance	1 to 50 m
Speed Range	5 to 250 km/h
Speed Accuracy	-2 to 0 km/h
Lane Coverage	Up to 4 lanes
Beamwidth (Azimuth/Tx)	64°
Beamwidth (Elevation/Tx)	16°
Interface	
Communication Ports	RS485 / Wi-Fi / Ethernet
Indicator LEDs	Three (red = power, green = status, blue = Wi-Fi connection)
Physical Characteristics	
Power Supply	9 to 32 VDC
Operating Temperature	-40°C to +85°C
Operating Humidity	5%RH to 95%RH
Certifications	CE / RoHS / FCC / IEC 60068-2-11 / OINLR91
Protection Class	IP67
Dimension	150.65 × 150.65 × 46 mm
Net Weight	
Installation Height	Standard 6 m (adjustable 4 to 10 m)

Dimensions (mm)

