

SN-SMWR04A

Perimeter Radar



Key Features

- Up to 1500m vehicle detection and 1000m human detection
- Accurate target classification of humans, and vehicles
- High-precision performance with $\pm 0.75\text{m}$ ranging and $\pm 1^\circ$ angular accuracy
- 24GHz FMCW radar for stable performance in all weather conditions
- Seamless system integration with PoE+, RS485, and open network protocols
- IP66-rated design for reliable outdoor deployment

Specifications

Radar	
Radar Type	FMCW (Frequency Modulated Continuous Wave)
Operating Frequency	24.00–24.25 GHz
Update Rate	8 Hz
Detectable Targets	Humans, vehicles
Detection Range	Human (RCS 1.0 m ²): Up to 1,000 m Vehicle (RCS 30.0 m ²): Up to 1,500 m
Detection Angle	Azimuth: 90°, Elevation: 13°
Range Accuracy	±0.75 m
Range Resolution	1 m
Angular Accuracy	±1°
Speed Range	0.5–30 m/s
Speed Accuracy	±0.03 m/s
Speed Resolution	0.06 m/s
Network	
Protocols	HTTP, DNS, NTP, TCP, UDP, DHCP, ARP, SSH
Interface	
Network Interface	1 × RJ45 (10/100/1000 Mbps)
Alarm Interface	1 × Relay Output, 1 × Digital Output, 1 × Digital Input
RS-485	1
General	
Power Supply	12 V DC
Power Consumption	≤ 35 W
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Ingress Protection	IP66
Dimensions	234 × 315 × 49.0 mm (9.22 × 12.41 × 1.93 in.)
Net Weight	Approx. 3.5 kg (7.72 lb)

Dimensions (mm)

