CREATOR (CHINA) TECH CO., LTD.
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CRT-RT500-001

Traffic Flow Radar

Creator's first self-developed traffic millimeter wave radar, utilizing mature domestic chip solutions, achieves a maximum detection range of 260 meters. It accurately identifies traffic flow and vehicle behavior. By intelligently coordinating with traffic signals, it optimizes timing to alleviate congestion, reduce manual intervention, and enhance smart traffic efficiency.



Features



- **80GHz operating frequency:** All-weather adaption
- **Maximum detection range:** 260m @ 15dBsm
- **Multi-target tracking:** Supports up to 200 targets
- **Single-chip integration:** Cost-effective, low consumption, and high reliability

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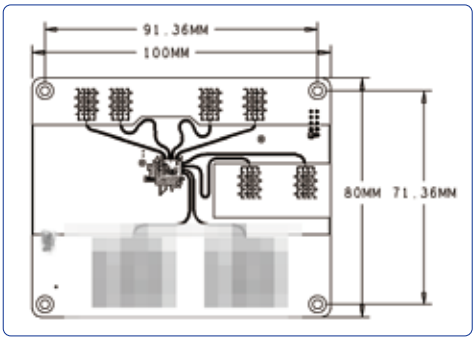
Technical Specifications

General Parameters			
Operating Frequency		79-81GHz	
Operating Voltage		9-36V	
Current Consumption		Idle: 100mA, Operating: 114mA, Peak: 200mA	
Detection Range		260m@15dBsm	
Communication Interface		CAN, RS485, TT	
Operating Environment		-40°C~85°C, 0 ~ 95 % RH (non-condensing)	
Storage Environment		-40°C~105°C, 0 ~ 95 % RH (non-condensing)	
Protection Rating(with housing)		IP67	
RF Parameters			
Performance		Short Range	Long Range
Distance (m)	Range	0.5 ~208m	0.5 ~ 260m
	Accuracy	±0.2m	±0.25m
	Resolution	0.8m	1m
Speed(km/h)	Range	±225km/h	±225km/h
	Accuracy	±0.1m/s	
	Resolution	0.14m/s	
Horizontal FOV(°)	Range	±14°@6dB	±6°@6dB
	Accuracy	±0.5°@0°	±0.5°@0°
	Resolution	2.87°@0°	2.29°@0°
Vertical FOV(°)	Range	±5°@6dB	±5°@6dB
Detection Target Types		Dynamic & static	
Max Targets Tracked		200	
Update Rate(Hz)		10	
Operating Frequency(GHz)		79~81GHz	

Diagram



Application

- Traffic flow statistics
- Road safety alerts
- Roadside parking monitoring
- Perimeter security
- Traffic signal control systems
- Intersection vehicle detection