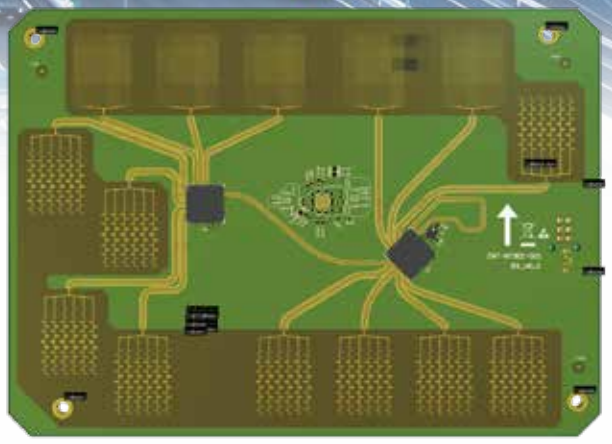
CREATOR (CHINA) TECH CO., LTD.
From Modules to Custom Kiosks, Innovation on Your Needs.

CRT-RT601-001

Traffic Flow Radar

A self-developed millimeter-wave radar for traffic, using TI dual-chip solutions to achieve a 500m detection range. Integrates with cameras to form a radar-vision system, optimizing traffic signal timing to reduce congestion and manual intervention.





Features

- **80GHz frequency:** All-weather operation with minimal climate impact
- **Maximum detection range:** 500m @ 15dBsm
- **Multi-target tracking:** Up to 512 targets
- **4D high-resolution detection:** Distance, speed, horizontal, and vertical angles

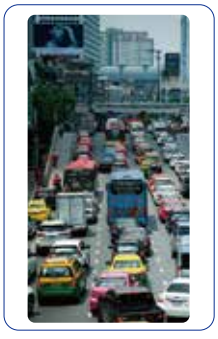
Call or email for more info
P +86 755 2671 0992
E sales@china-creator.com
W china-creator.com

Technical Specifications

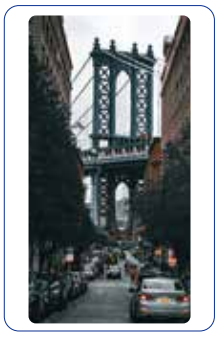
General Parameters	
Operating Frequency	79-81GHz
Operating Voltage	9-36V
Operating Voltage (12V)	Operating Current≤585mA
Detection Range	500m@15dBsm
Communication Interface	CAN, RS485, Ethernet
Operating Environment	-40°C-85°C, 0 ~ 95 % RH (non-condensing)
Storage Environment	-40°C-105°C, 0 ~ 95 % RH (non-condensing)

RF Parameters		
Performance		Long Range
Distance (m)	Range	0.5 ~ 500m
	Accuracy	±0.5m
	Resolution	2.5m
Speed(km/h)	Range	±100km/h
	Accuracy	±0.2km/h
	Resolution	1.0km/h
Horizontal FOV(°)	Range	±6°@6dB
	Accuracy	±0.2°@0°
	Resolution	1.03°@0°
Vertical FOV(°)	Range	±6°@6dB
	Accuracy	±0.6°@0°
	Resolution	2.87°@0°
Detection Target Types		Dynamic & static
Max Targets Tracked		512 (tracking), 1024 (point cloud).
Update Rate		10Hz
Operating Frequency		79~81GHz

Application


Tracffic flow statistic


Safety warning


Parking monitoring


Perimeter security


Traffic signal control


Intersection vehicle detection