

# TOPGRD<sup>®</sup> | Compact Line

TOPGRD is a cost-effective radar with a small form factor and low power consumption. It is the perfect fit for urban and interurban traffic detection applications.



## OPTIMIZING TRAFFIC FLOW

- ✓ Detection of stopped and moving vehicles
  - ✓ Vulnerable Road Users (VRU)
  - ✓ Approaching and receding traffic
- ✓ Coverage of large areas, replacing multiple loops
- ✓ Works in all weather conditions
- ✓ Maintenance-free



SMART CITIES

Stop+Advance



INTERSECTION MANAGEMENT

Stop+Advance



HIGHWAY MANAGEMENT

Forward+



TUNNEL MONITORING

Forward+

		TOPGRD®	
PERFORMANCE		X-Long-Range Mode	X-Medium-Range Mode
Range	Detection Max. (passenger car)	240 m	98 m
	Detection Min. (at 6 m installation height)	15 m	12 m
	Separation (min. distance between objects)	≤ 2.4 m	< 1 m
	Accuracy	< 0.6 m	< 0.25 m
Speed	Max.	320 km/h in both directions	
	Separation	< 0.26 m/s	< 0.26 m/s
	Accuracy	≤ 0.07 m/s	≤ 0.07 m/s
Number of Lanes		Up to 10 for highway management, up to 6 for intersection management	
Seperation: Azimuth (horizontal)		2°	
Angle Accuracy Azimuth (horizontal)		≤ 0.25°	
GENERAL			
Operating Frequency		76...77 GHz or 79...80 GHz	
Center Frequencies (to avoid interference)		4 center frequencies	2 center frequencies
Update Cycle Time		≤ 55 ms	
Field of View	Azimuth (horizontal)	-50...+50°	
	Elevation (vertical)	-10...+10°	
Operating Voltage / Power Consumption		7...32 V / < 6 W	
Operating Temperature		-40...+85°C	
Interfaces		RS485 full duplex; Ethernet 10/100; PLC	
Dimensions		98 x 115 x 34 mm + connector	
Connector		Hirose LF10 series	
IP		IP 67	

smartmicro Accessories

Connection Box (Simple, Full, PLC J-Box), Bracket (Simple, Advanced), Cabinet Equipment (COM HUB, CRO), Traffic (Web) UI

