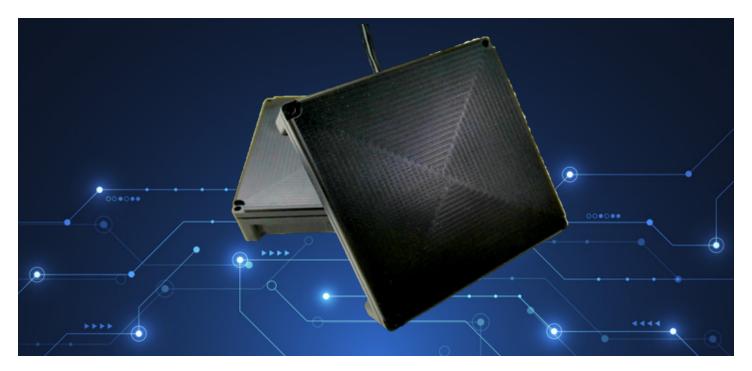


EG 261



K-band Obstacle Detection Radar

EG261 is a K-band, Frequency Modulated Continuous Wave (FMCW) based obstacle detection radar. It is designed and optimized for low power, compact and lightweight obstacle detection applications such as collision warning and detection.

Through our proprietary signal processing algorithms, the EG261 provides distance and bearing information of multiple targets within its field of view via a UART/CAN interface.

Key Applications

- Aerial Drones
- Autonomous Vehicles/Robots
- Industrial Machines

Key Features

- All-weather performance
- Multi-target detection
- Detect moving and stationary objects
- Simultaneous distance and bearing information
- Compact and lightweight
- Low power consumption
- UART/CAN interface



Connector Pin-out

PIN	DESCRIPTION	FUNCTIONS	
1	V _{cc}	+5V to +12V	
2	Ground	Power supply ground	
3,4	RxD, TxD	UART interface option	
3,4	CAN_H, CAN_L	CAN bus interface option	

Technical Specifications

PARAMETER	REMARKS	MIN	TYP	MAX
SENSOR PERFORMANCE		1	l	
Transmitting Frequency (GHz)		24.00		24.25
Transmitter Output Power (dBm)			20	
Operating Range (m)		0.8		50
Range Accuracy (m)			0.3	
Range Resolution (m)			0.6	
No. of Simultaneous Detectable Targets				20
Field of View (°)	X/Y		70/24	
Side-Lobe Level (dBc)	X/Y		-20	
Update Rate (Hz)				80
IF-AMPLIFIER				
Gain (dB)	Fixed		76	
Bandwidth (KHz)			1-100	
INTERFACES				
Supported Interface	EG261-0		UART	
Supported interrace	EG261-1		CAN-BUS	
Supported Connector			5 Pin GPIO/JST	
MECHANICAL				
Dimensions (mm)			64.0 × 64.0 × 16	
Weight (g)	Without cable		40	
Ingress Protection			IP55	
GENERAL				
Supply Voltage, V _{IN} (V _{DC})		5		12
Current Consumption (mA)			250	
Operating Temperature (°C)		-20		60

Unless noted otherwise, the specifications are measured at ambient temperature of +25 $^{\circ}\text{C}$

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