

# General Purpose Radar Off-Highway

Flexible application in Off-Highway solutions

Off-the-shelf radar for mobile machines



## target reflections

as basis for functional developments

## state of the art

76 – 77 GHz radar technology for reliable target detection

## small and outstanding

radar technology for the off-highway market

### TECHNICAL CHARACTERISTICS

Field of view Antenna Tx1	Horizontal	±6.0° [160 m] – ±10.0° [60 m]
	Vertical @RCS 10 m <sup>2</sup>	–7.5° – 5.5° [160 m]
Field of view Antenna Tx2	Horizontal @RCS 10 m <sup>2</sup>	±42.6° [29 m] – ±21.0° [78 m]
	Vertical @RCS 10 m <sup>2</sup>	–4.0° – 11.0° [50 m]
Sensor output	Target ID 's	48 [incl. data]
Frequency	Modulation	76 GHz – 77 GHz
Measurement rate		~ 100 ms
Protection class		IP 6K9K
Com. Interface	CAN	ISO 11898 [125 – 1,000 kbit/s]
Power supply		7 – 18 V (max. 4.5 W)
Temperature		–40 to +85 °C
Weight		~ 200 g
Dimension		70 × 60 × 30 mm

- ▶ Application oriented function development based on received targets
- ▶ Robust performance also under rough weather conditions (snow, fog, rain, dust, illumination)
- ▶ The General Purpose Radar OHW is developed according to ISO 13849
- ▶ Flexible field of view thanks to variable antenna selection