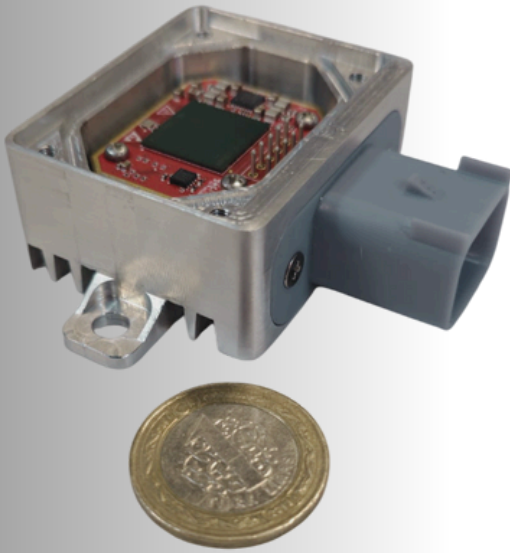


ITAS SHORT RANGE RADAR



PRODUCT DETAILS

The ITAS short range radar offers excellent performance for various applications that require precise and reliable distance measurement and detection. Its high frequency enables superior resolution, allowing accurate object detection even in complex environments. With an 80-meter range, this radar can cover a wide area, making it an ideal solution for automotive safety systems, industrial monitoring, traffic management, and tracking applications. It also provides efficiency and precision in automated systems and security applications.

Technical Specifications

Working Frequency

77- 81 GHz

Field of View

Horizontal $\pm 70^\circ$

Vertical $\pm 40^\circ$

Azimuth Angular Resolution

1 deg

Elevation Angular Resolution

3 deg

Range

Up to 80 meter

Interfaces

CAN FD

Size

53 x 44 x 23 mm with Housing

Power Consumption

< 2 W

Power Supply

5V-24V

Ambient Temperature

-40...+125

KEY ADVANTAGES

Key advantages of the 77 GHz radar include low power consumption, compact size, and the ability to operate effectively in challenging environmental conditions such as fog, rain, or dust. Additionally, by replacing multiple sensors with a single versatile unit, it reduces system complexity and offers a more streamlined design with a cost-effective solution. Overall, the 77 GHz radar is a high-performance, reliable, and versatile tool in modern technology, offering a broad range of applications.



Automotive Safety Systems



Aviation Industry



Defense Industry



Industrial Automation and Monitoring



Logistics and Warehousing



Drones and Autonomous Systems

CONCLUSION & CONTACT

This advanced MIMO FMCW radar operating in the 77-81 GHz band offers precise detection and seamless integration thanks to its compact size. Its high-performance design, which can be combined with customizable interfaces, ensures reliable operation in complex and challenging environments, making it an ideal solution for a wide range of applications.

For additional information, custom configurations, or integration support, please contact us:

- Email: info@itas-eng.com
- Phone: +90 (312) 502 5691
- Website: <https://itas-eng.com/>