

KROMIUM 1

24 GHz Switchable Beam Radar

Model Number: RDM-A-BGT24-9010-S



RADAR SERIES



OVERVIEW

CEI's Radar Series brings high frequency radar technology to small form factor platforms. The Radar Series was designed for land, sea, and air environments where Size, Weight and Power are critical. Equipped with extensive capability, such as steerable beams and digital beam forming, the radar systems can provide superior performance for tasks such as range, speed and RCS measurements, target tracking, collision avoidance, occupancy sensing and much more. With 24, 60, and 77GHz options to choose from, the Radar Series is an excellent option for your next radar application.

PRODUCT DESCRIPTION

Kromium 1 was designed to help take your next 24GHz radar design to market quickly and easily. The built-in patch antenna includes three switchable transmit and receive beams, with a total Field of View (FOV) of 100°.

Equipped with Infineon's BGT24MTR11 transceiver and XMC microcontroller, optimized for energy efficiency with an ARM Cortex – M4, 32-bit processor core, Kromium 1 has plenty of processing power to support advanced Digital Signal Processing (DSP) algorithms. Let Kromium 1 be the gateway to your next 24GHz radar design!

FEATURES

- Accurate Speed & Motion Measurements
- Angular Resolution (3x 30° beams)
- TX Sample & RX injection Ports
- I/O Headers
- USB to PC Interface
- Ethernet
- CAN
- Sensors: Temperature, Humidity, Barometric Pressure, Ambient Light & Proximity, Accelerometer, Gyroscope, Smoke Detector, Microphone

APPLICATIONS

- Onboard Memory
 - 16MB
 - SDRAM
- Digi Xbee Socket (Interchangeable)
 - Wi-Fi
 - Cellular: LTE-Cat 1, LTE-M, 3G
 - Bluetooth & More!
- Smart City
- Smart Home
- Room Occupancy
- Target Tracking
- Collision Avoidance
- Speed, Range & Angle Measurements & More!

