

Model Number: iScan-P-STM32F4





OVERVIEW

Colorado Engineering, Inc. (CEI)'s Radar Series makes rapid prototyping of high performance radar quick and easy. Utilizing a modular architecture, processor, expansion, and antenna modules can be mixed and matched to create a customized development platform. Equipped with extensive capability, such as MIMO, steerable beams, and digital beam forming, this development platform provides superior performance for tasks such as range, speed and RCS measurements, target tracking, collision avoidance, occupancy sensing, and much more. Antenna Modules are available in 24, 60, and 77GHz options, making the CEI Radar Series an excellent solution for your next application.

PRODUCT DESCRIPTION

iScan Edge 4 utilizes ST Micro's STM32F4 microcontroller to provide a multitude of Advanced Driver Assistance System (ADAS) safety features like emergency braking, adaptive cruise control, collision avoidance, blind-spot monitoring, cross-traffic alert, and automated parking.

Compatible with CEI's iScan Prizm antenna module, iScan Edge 4 is packed with extensive I/O, on-board memory, and equipped with a variety of sensors to give the user as much information about the environment they are testing in. Choose the iScan Edege 4 to integrate into your next modular radar development platform!

FEATURES

- STM32F4 Microcontroller
- Receive Radar Data Over Quad SPI from MAX 10
- 16Mb External SRAM
- JTAG Programmability
- Contains iScan I2C Sensor Daughter Card Connector
- Ethernet Support 10-100 Mbps

- USB 1.0
- USB to UART for Terminal and bootloading
- System Power Supplies (Switching Regulators and LDOs)
- Input Power Protection
- ADI1069 Voltage Supervisor and Sequencer

Physical Dimensions

- 50.8 mm x 76.2 mm (W x L)
- Modular Design
- Compact, Single Chip Solution for RF

APPLICATIONS

- Collision Avoidance
- Range & Speed
- Moving & Stationary Targets
- Medium Range Radar Application

BLOCK DIAGRAM



iScan MODULAR RADAR ARCHITECTURE

The iScan Radar Series makes rapid prototyping of high performance radar quick and easy. Utilizing a modular architecture, CEI's iScan processor, expansion and antenna modules can be mixed and matched to create a customized development platform. Equipped with extensive capability, such as MIMO, steerable beams and digital beam forming, iScan provides superior performance for tasks such as range, speed and RCS measurements, target tracking, collision avoidance, occupancy sensing and much more. iScan Antenna Modules are available in 24, 60 and 77GHz options, making the iScan Radar Series an excellent solution for your next application.



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