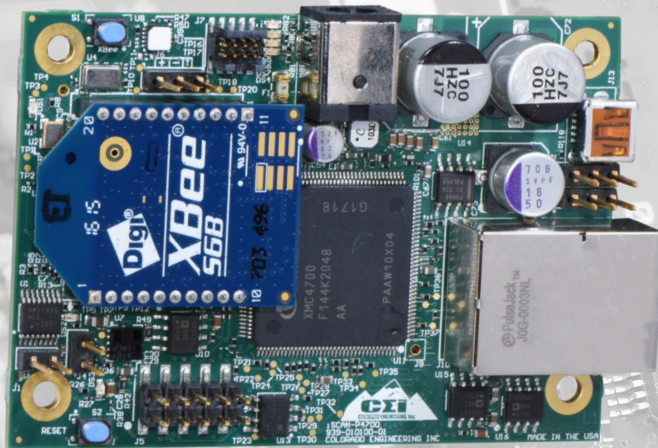


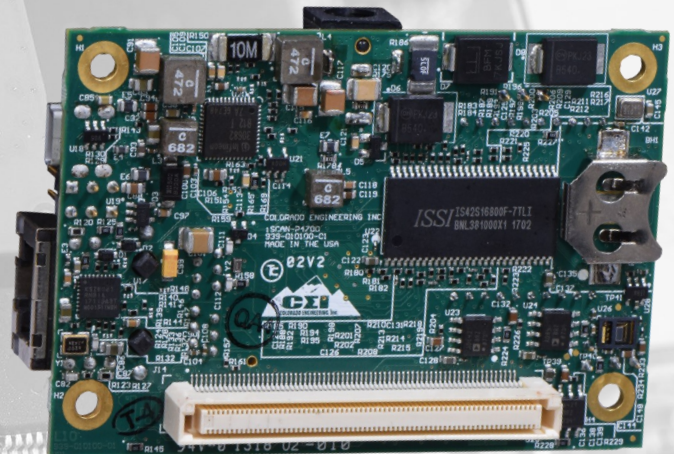
iScan Edge 2

XMC4700 Processor Module

Model Number: iScan-P-4700



Top



Bottom

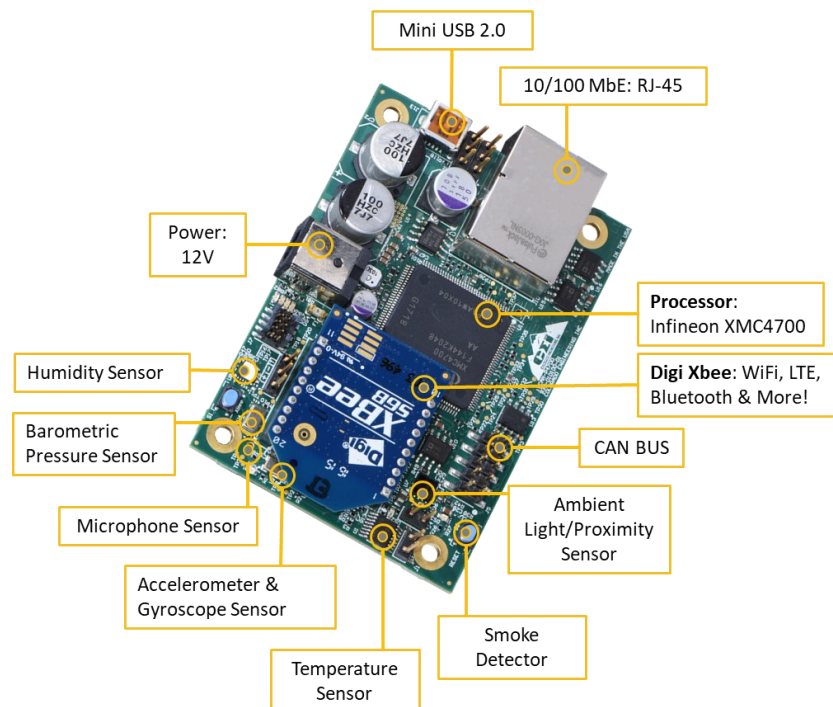
PRODUCT DESCRIPTION

Designed to bring the iScan family to the world of Internet of Things (IoT), the iScan Edge 2 hosts the Infineon XMC-4700 – a powerful ARM Cortex-M4 32-bit processor core microcontroller with extensive peripheral control, 12-bit ADCs, and other features. To fully exploit the IoT mindset, the iScan Edge 2 has a wide input power range; it can accept battery power and automotive power (5.0 – 30V).

The iScan Edge 2 is also crammed with interfaces to allow for flexible integration including wired and wireless networking through a 10Base-T/100Base-TX ethernet phy and Digi Xbee Module. Included with the iScan Edge 2 is an array of various I2C sensors to provide extensive environmental sensing capabilities – temperature, pressure, humidity, 6-DOF IMU, light, gas, and a microphone.

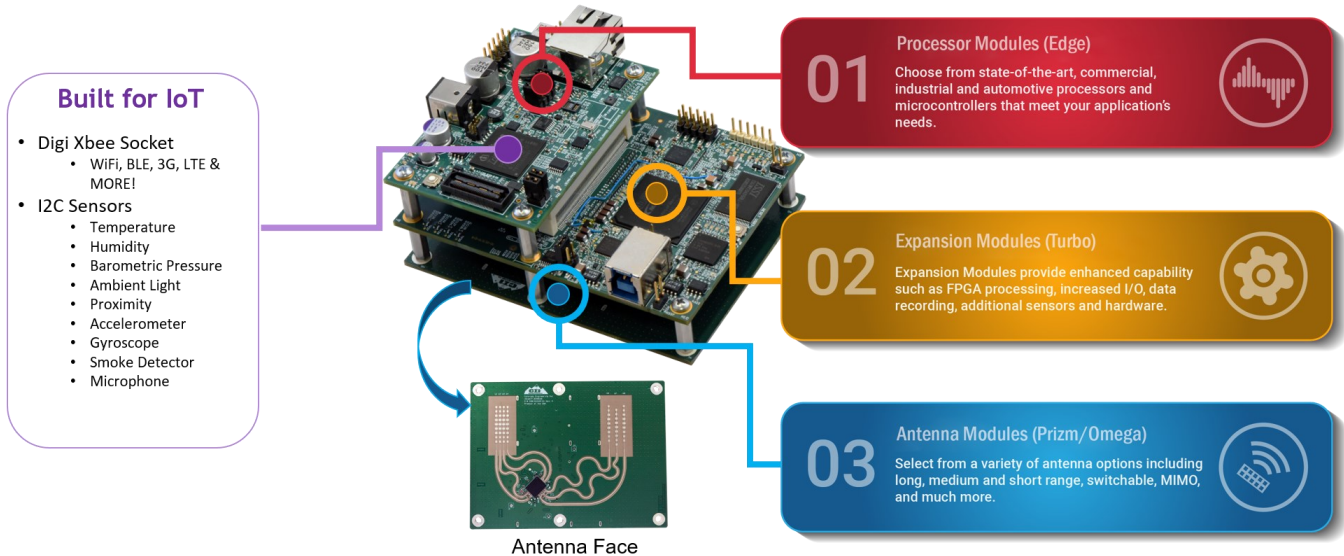
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iScan MODULAR RADAR ARCHITECTURE

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.



Processor Modules

Name/Model Number	Features
iScan Edge 1 iScan-P-A2G	• Processor: AurixTMTC39xx • On-board Sensors: IMU, Temperature, Humidity, Pressure, Light, Optical, Smoke Detector
iScan Edge 2 iScan-P-4700	• Processor: Infineon XMC4700 • On-board Sensors: Temperature, Humidity, Barometric Pressure, Ambient Light/Proximity, Accelerometer, Gyroscope, Smoke Detection & Microphone • Digi Xbee Socket: WiFi, LTE, Bluetooth
iScan Edge 3 iScan-P-S32R274	• Processor: NXP S32R274 • On-board Sensors: Temperature, IMU, Light/Proximity, Barometer, Humidity, Smoke, Microphone
iScan Edge 4 iScan-P-STM32F4	• Processor: ST Micro STM32F407 • On-board Sensors: Humidity, Barometric Pressure, Accelerometer & Gyroscope, Temperature, Smoke Detector, Ambient/Light Proximity

Expansion Modules

Name/Model Number	Features
iScan Turbo 1 iScan-E-M10	• Processor: Intel Max 10 FPGA • I/O: USB 3.0 Type-A • Other: 4-ch ADC
iScan Turbo 2 iScan-E-TK1 (<i>In Development</i>)	• Processor: NVIDIA Tegra K1 • Features: H.264, HDMI, 1 USB 2.0, USB 3.0, X4 PCIe Gen2, Onboard IMU and much more!

Antenna Modules

Name/Model Number	Features
iScan Prizm 1 iScan-A-RXS8160-6610-D	• Frequency: 77 GHz • XCVR: Infineon 77GHz Chipset • FoV: ±33° AZ, ±5° EL
iScan Prizm 2 iScan-A-TEF8102-24103610-D	• Frequency: 77 GHz • XCVR: NXP TEF 8102 FMCW • FoV: (7x4 Center) ±12° Az, ±5° El (7x3 Outer) ±18° Az, ±5° El
iScan Omega 1 iScan-A-ADF5901-5904-7316-F	• Frequency: 24 GHz • XCVR: ADI 5901TX / 5904RX • FoV: ±36.5° AZ, ±8° EL
iScan Omega 2 iScan-A-ADF5901/04-2526-D	• Frequency: 24 GHz • XCVR: ADI 5901TX / 5904RX • FoV: ±12.6° AZ, ±13° EL

iScan Development Kits

Name/Model Number	Configurations
iScan Phantom iScan-K-RXS8160-A2G	• Processor Module - iScan Edge 1: Infineon AurixTMTC39xx microcontroller • Antenna Module - iScan Prizm 1: Infineon 77 GHz MMIC RXS8160
iScan Phantom with Turbo 1 Expansion Module iScan-K-RXS8160-A2G-M10	• Processor Module - iScan Edge 1: Infineon AurixTMTC39xx microcontroller • Antenna Module - iScan Prizm 1: Infineon 77 GHz MMIC RXS8160 • Expansion Module (optional) - iScan Turbo 1: Intel Max 10 FPGA
iScan Panther with Turbo 1 Expansion Module iScan-K-ADF5901/04-STM32F4-M10	• Processor Module - iScan Edge 4: NXP S32R274 microcontroller • Antenna/XCVR Module - iScan Omega 2: ADI 24 GHz 5901TX / 5904RX • Expansion Module - iScan Turbo 1: Intel Max 10 FPGA