HoriZone RA Evaluation Kit

AVNET
Reach Further™

The HoriZone RA Evaluation Kit helps designers meet rising market demand for trusted embedded IoT devices with advanced security features. This highly scalable solution provides all the building blocks for a seamless path from proof of concept to project and deployment.

The kit enables proof of concept for edge-to-cloud Internet of Things (IoT) applications requiring secure communications. Powered by a Renesas RA Family microcontroller optimized for secure IoT endpoints and edge devices, the easy-to-use kit delivers superior security for resource-constrained embedded systems (RCES) connected to Avnet's IoTConnect® Cloud Platform based Microsoft® Azure cloud.



KIT INCLUDES

EK-RA6M3 Board

Multisensor Shield AVSSENSOR-REN-SHIELD-A:

- Power Supply ISL 88014 with voltage supervision and watchdog
- Secure Element INF Trust-M
- Sensor
  - Humidity
  - Temperature
  - Ambient Light
  - Air Quality
  - Barometric Air Pressure
  - Microphone
  - 3D Digital Accelerometer
  - 3D Digital Gyroscope
  - Inductive Position

TARGET APPLICATIONS

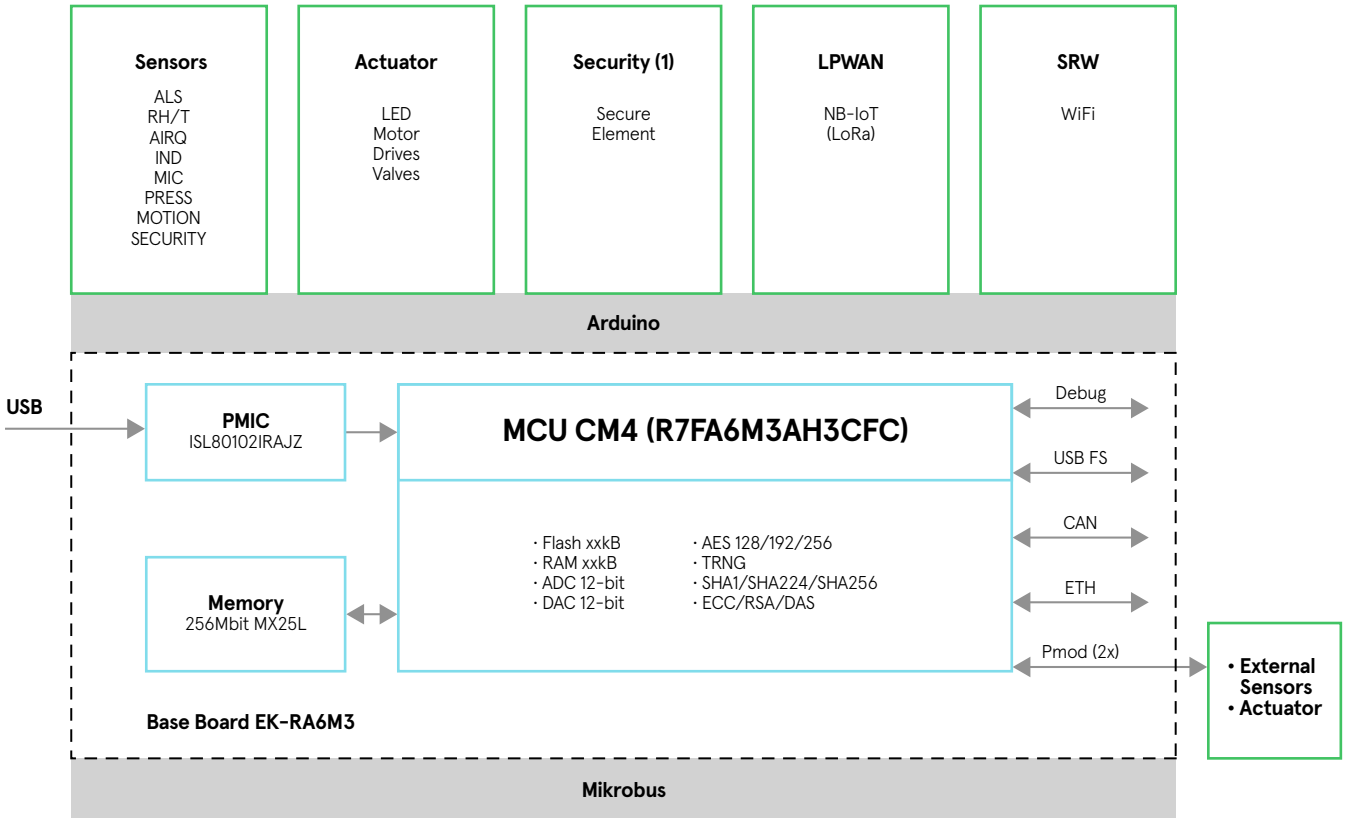
- IoT edge device with wired / wireless connectivity that requires secure communications
- HMI applications with touch and / or LCD (capacitive touch interface on all Renesas RA)
- Broad range of different markets: home and building automation, industrial automation, healthcare, household appliances requiring a wide and scalable lineup
- Sensor applications
- High-level security with tamper-resistance and / or TrustZone-M

FEATURES

- Cloud-ready Renesas RA EK-RA6M3 board with multisensor Arduino Shield and Secure Element
- Powered by Renesas RA MCU Family for secure IOT endpoints and edge devices
- Delivers industry-leading security features for resource-constrained embedded systems (RCES) connected to Microsoft® Azure Cloud
- Arduino Multisensor Shield (Ambient Light, RH/T, Air Quality, Pressure, Microphone, Motion, Inductive)
- The HoriZone kit is a fully integrated solution to bring sensor data into Avnet's IoTConnect®

To purchase this kit, visit avnet.me/HoriZone

BLOCK DIAGRAM



FEATURED MANUFACTURERS

RENESAS

Microsoft Azure

PARTS

Part Number	Description	Resale
AVSHORIZONE-RENRA-ETH	HoriZone RA development kit	$214 USD

RELATED PARTS

Part Number	Description	Resale
RTK7EKA6M3S00001BU	Renesas Evaluation Kit for RA6M3	$120.78 USD

Countries Available for Purchase: Americas, APAC, EMEA / Silica, Japan

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