

SAM-IoT WG Development Board

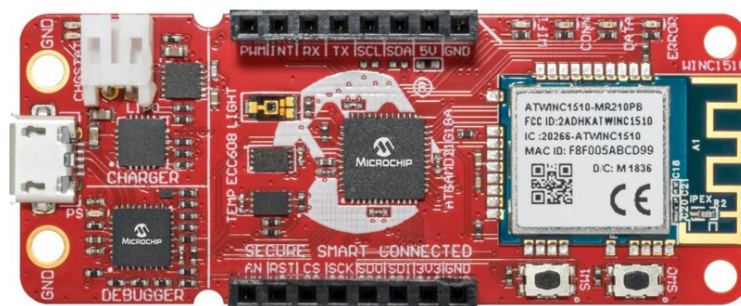


Part Number: EV75S95A

Summary:

The SAM-IoT WG Development Board features the SAMD21G18 Arm® Cortex®-M0+ based 32-bit microcontroller (MCU), an ATECC608A CryptoAuthentication™ secure element IC and the fully certified ATWINC1510 Wi-Fi® network controller, so you can quickly and easily connect your embedded application to Google's Cloud IoT core platform. The on-board debugger allows you to program and

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Product Features

- **SAMD21G18, 32-bit Microcontroller**
 - 256 KB flash memory and 32KB of SRAM
- **ATWINC1510 WiFi Module**
 - Single-band 2.4GHz b/g/n IoT Network Controller, Pre-certified module
- **ATECC608A CryptoAuthentication™ device**
 - Protected storage for 16 keys, SHA256, AES-CCM, ECDH (Elliptic Curve Diffie-Hellman), ECDSA
- **Other Board Features**
 - Four Status LED's
 - Blue LED indicates a connection to Wi-Fi network
 - Green LED indicates a connection to the Google Cloud servers
 - Yellow LED indicates a packet of sensor data has been successfully published to the Google Cloud MQTT servers
 - Red LED indicates an Error occurred
 - Two mechanical buttons
 - TEMT6000 Light sensor
 - MCP9808 Temperature sensor
 - mikroBUS header to interface to MikroElektronika click Boards™
- **On-board Debugger**
 - Auto-ID for board identification in Microchip MPLAB X
 - Programming and debugging
 - Virtual COM port (CDC)

- USB and battery powered
- Integrated Li-Ion/LiPo battery charger



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