

Azure Sphere MT3620 Development Kit_JP Version

SKU 102991100



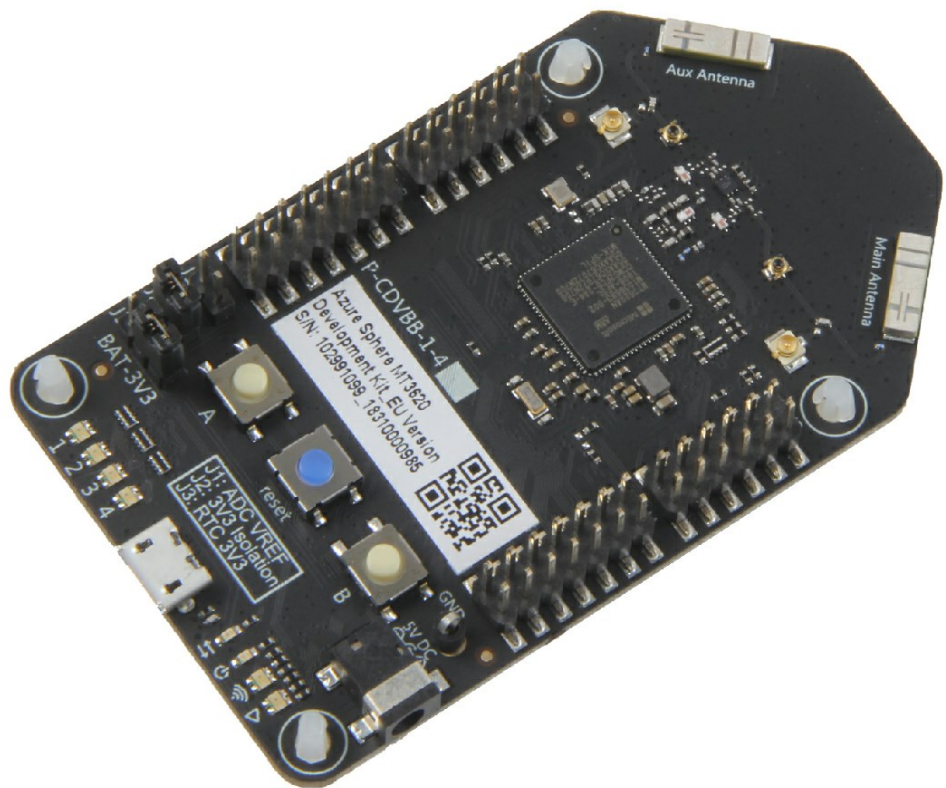
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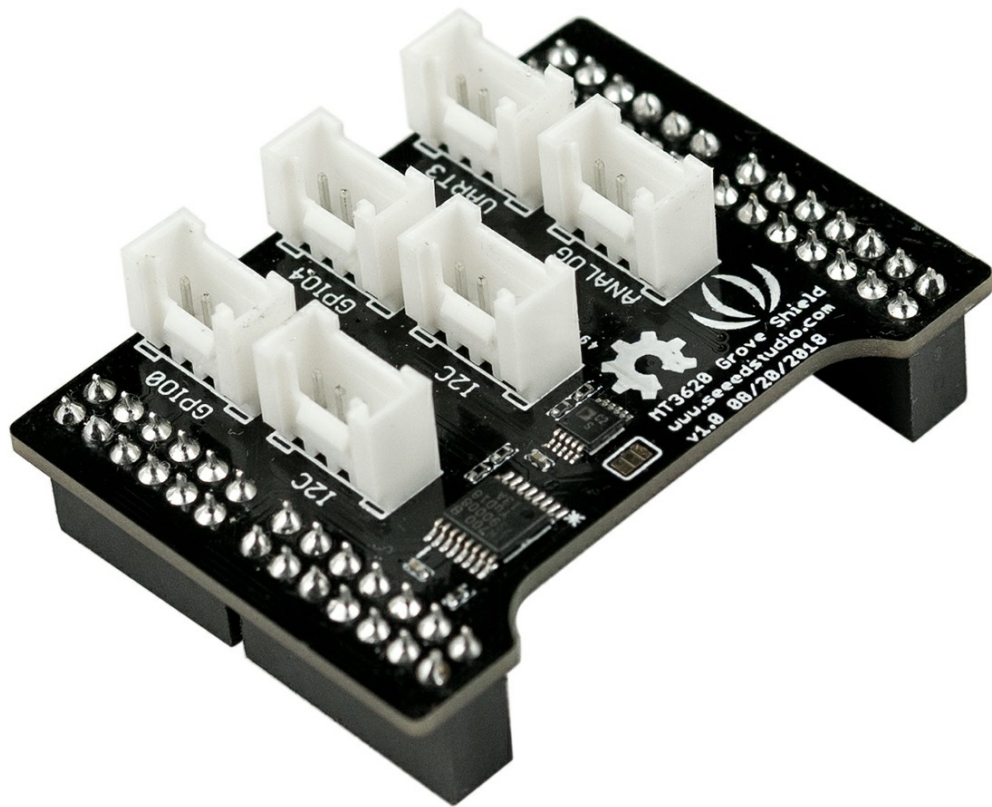
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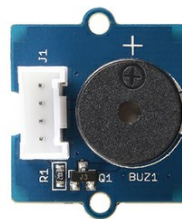
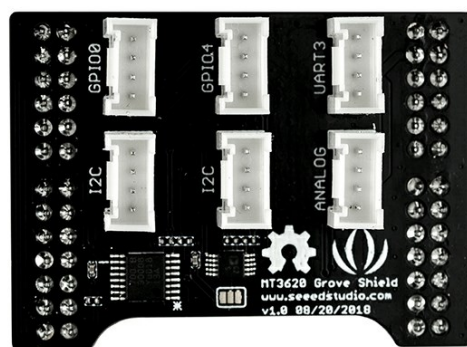
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MT3620 Grove Shield

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Grove Starter Kit for Azure Sphere MT3620 Development Kit

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Description

IMPORTANT NOTICE

1. Shipping Area

This product has 3 versions: [United States](#), [Europe](#), [Japan](#). They will be shipped to countries or regions where Azure is commercially available. If you need help on version selection, please check the [Countries or regions](#) page. Currently, it is not available for China mainland.

Europe Distributors:



2. Return policy

This product can only be activated once. Sseed will not accept return once the package has been opened. Check [Warranty & Returns](#) here.

If there are any quality issues after opening the package, please contact Sseed Tech Support Team techsupport@seeed.cc

3. Usage

This Azure Sphere development kit can be only used for prototyping. It cannot be built into a product for commercial distribution. It cannot be re-sold or used as part of a production environment.

4. Open Source Licenses

The software included in this product contains copyrighted software that is licensed under the GPL, LGPL or other open source licenses, listed at aka.ms/AzureSphereSDK. You may obtain the source code for applications from aka.ms/AzureSphereSDK or by sending an email to order@seeed.cc.

About Azure Sphere

[Microsoft Azure Sphere](#) is a solution for creating highly-secured, connected, MCU-powered devices. Azure Sphere brings together the best of Microsoft's expertise in cloud, software and silicon—resulting in a unique ecosystem of silicon and extends to the cloud. Together, Azure Sphere certified MCUs, the Azure Sphere OS, and the Azure Sphere Security Service provide you with the confidence and the power to reimagine your business and create new IoT experiences.

Azure Sphere provides three levels of security technology:

1.Secured MCU

Secured from the silicon up. The new MT3620 crossover class of MCUs combines for the first time both real-time and application processors with built-in Microsoft security technology and connectivity.

2.Secured OS

An OS built for security and agility to create a trustworthy platform for new IoT experiences. Our secured OS builds security innovations pioneered in Windows into an HLOS small enough for MCUs.

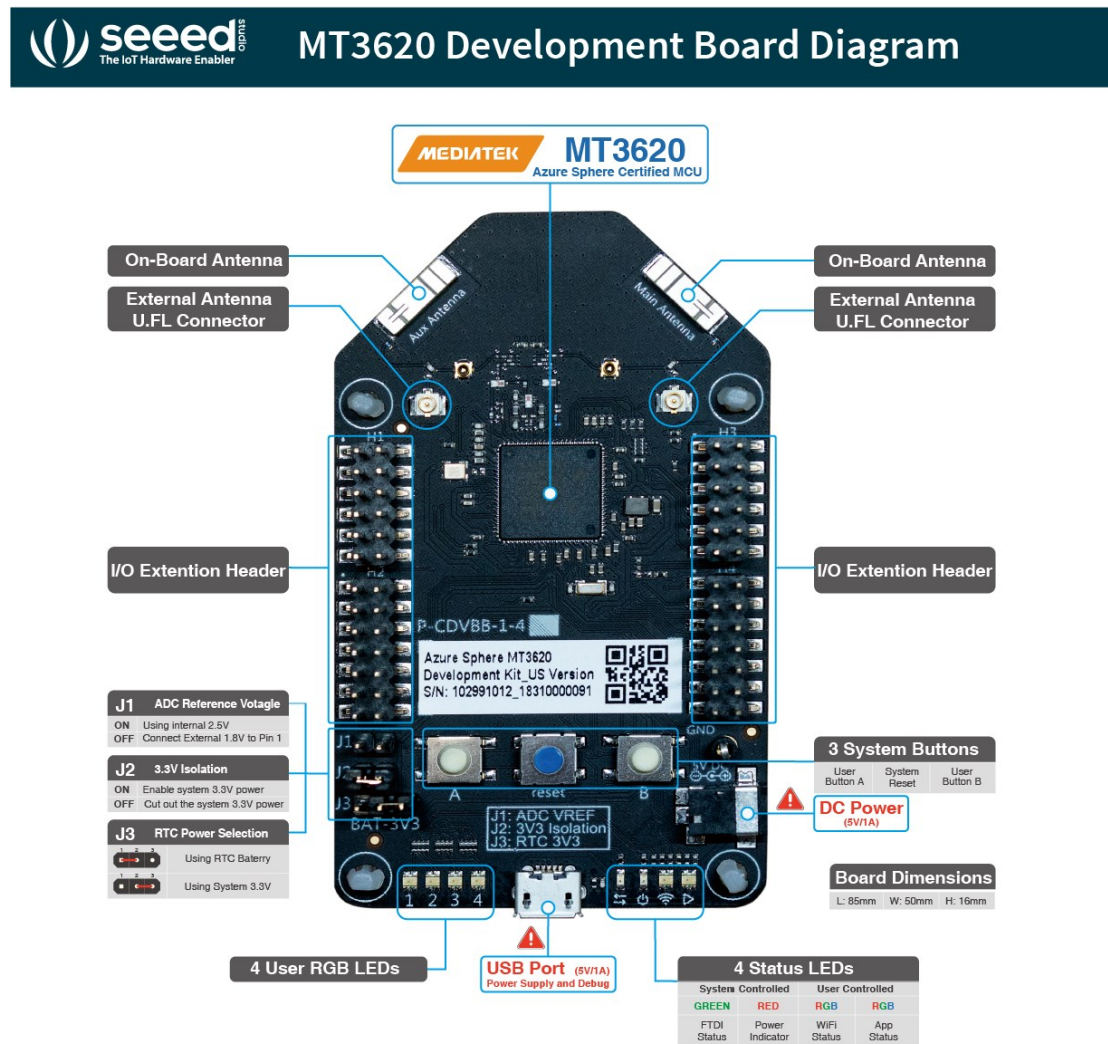
3.Cloud Security

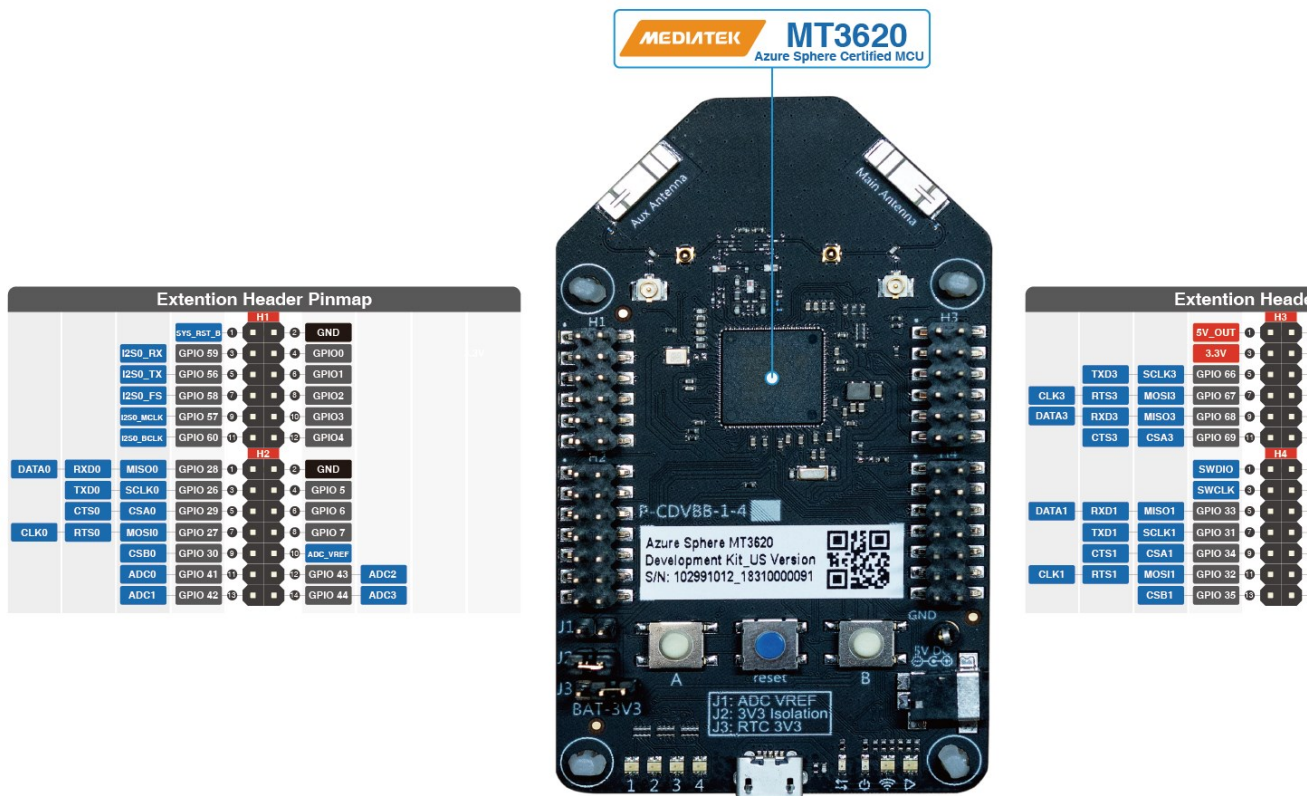
Protect devices with a cloud built for IoT security. The Azure Sphere Security Service renews device security, identifies emerging threats, and brokers trust between device, cloud, and other endpoints.

About Azure Sphere MT3620 Development Kit

Azure Sphere MT3620 Development Kit is specially designed to support rapid prototyping and to enable developers to experience Azure Sphere technology. MT3620 is the first Azure Sphere certified MCU. Azure Sphere MT3620 is a secure, connected crossover microcontroller. MT3620 features three user-accessible microcontroller cores: one ARM Cortex-A7 core and two general purpose ARM Cortex-M4F cores. The MT3620 is designed to interface with a variety of on-chip peripherals including GPIO, UART, I2C, SPI, I2S, PWM and ADC. It has a built-in security subsystem with its own dedicated CM4F core for secure boot and secure system operation.

Please note that the current Azure Sphere software release does not support all features of the MT3620 hardware, including the two general purpose ARM Cortex-M4F cores, some peripheral interfaces (ADC, I2C, I2S, RTC with clock selection and battery backup. For ADC and I2C, customers can use [MT3620 Grove Shield board](#), which has a UART to I2C chip and a I2C12-bit ADC chip.





Note:
 [2018/09/10]

The current Azure Sphere software release does not support all features of the MT3620 hardware. The following are not yet supported in software:

- 2 x ARM Cortex-M4 with FPU
- ADC, I2C, I2S, PWM and SPI peripheral interfaces (GPIO and UART are supported)
- Wi-Fi 802.11a (b/g/n are supported)
- RTC with clock selection and battery backup

The Azure Sphere operating system is pre-installed on the MT3620 and is designed to work with the Azure Sphere Security Service to create a secured IoT platform.

MT3620 software development is supported using the powerful Microsoft Visual Studio IDE:

- Install [Visual Studio](#) (Support Community, Enterprise or Professional) and the Azure Sphere extension, plug the development board into a PC over USB, and start developing IoT applications with unprecedented levels of security.
- To use the MT3620 Dev Board for Azure Sphere, you'll need a Windows 10 PC with the latest Windows Updates, along with [Azure Sphere software development kit \(SDK\)](#).

Please find the instructions to set up your device [here](#).

Key Features

- Azure Sphere: End-to-end security for IoT devices
- Dual-band 802.11 b/g/n with antenna diversity
- Tri-core microcontroller with on-chip RAM & flash
- Microsoft Visual Studio development environment
- Online authentication & updates for device lifetime

Specification

Hardware

MCU	MT3620 <ul style="list-style-type: none">1 * ARM Cortex A7 core @500MHz , 4MB RAM2 * ARM Cortex M4 core @200MHz , 64KB RAM
ISU	4 * "ISU" serial interface which can be configured as: <ul style="list-style-type: none">I2C runs at up to 1MHzSPI runs at up to 40MHz,UART runs at up to 3Mbps
Connectivity	2.4/5GHz dual-band 802.11 b/g/n Wi-Fi
I2S	1 * I2S support slave and TDM slave mode
ADC	4 * 12-bit ADC input I/O
RTC	1 * RTC with CR2032 3V battery holder
USB	1 * Micro USB port for power supply and debugging, 5V/1A
DC Jack	1* 5V/1A DC power jack
Operating Temperature	-40~85°C
Dimensions	L:85mm*W:50mm*H:16mm
Certification	CE / FCC / MIC / RoHS

Software

IDE	Visual Studio
System	Windows 10
Language	C

Technical Details

Dimensions85mm x 50mm x 16mm
WeightG.W 110g
BatteryExclude

Part List

Azure Sphere MT3620 Development Kit_JP Version1
Micro USB Cable1

ECCN/HTS

ECCN5A002.a.1
HSCODE8471504090

Certification

RoHSCompliant
CertificationFCC,CE,MIC,ROHS

Documents

Azure Sphere MT3620 Development Kit Product Brief.pdf

More information about Microsoft Azure Sphere

Countries or regions available list

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Learn



[Wiki] Azure Sphere MT3620 Development Kit_JP Version

This is the wiki page for this product, which will show you how to use the product, as well as details about the software and hardware.

Questions and Answers

Have a question about
this? Ask people who



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