

Azure Sphere MT3620 Development Kit_EU Version

SKU 102991099     

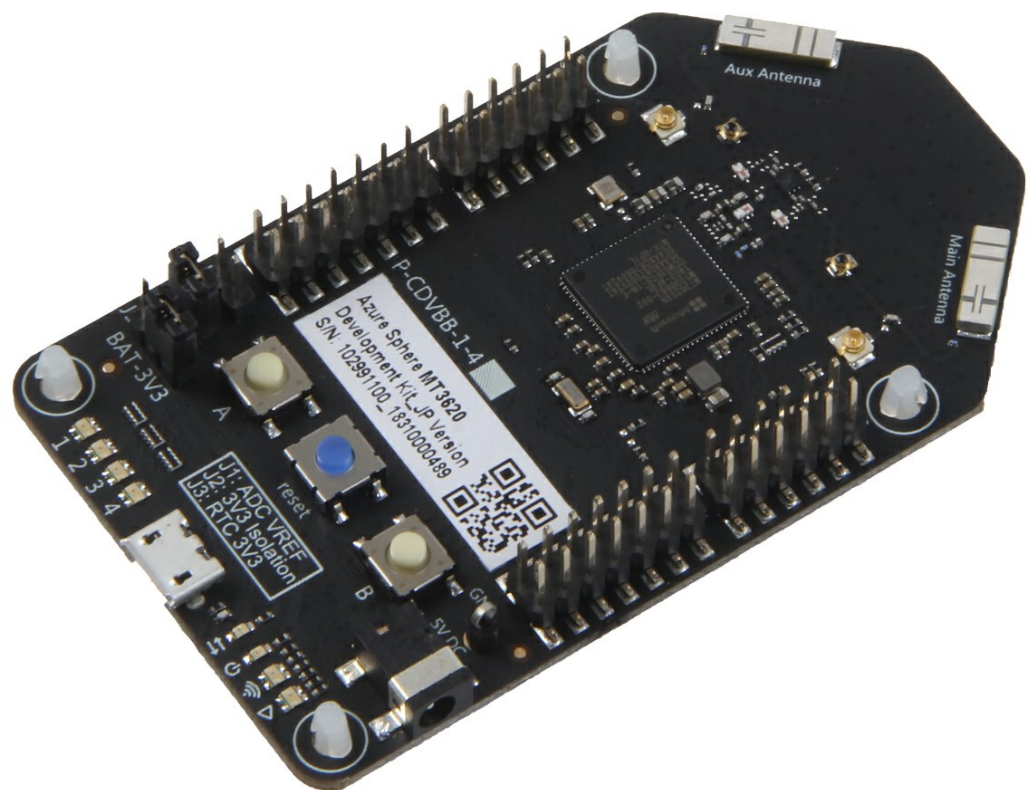
Related



Azure Sphere MT3620 Development Kit_US Version

Azure Sphere MT3620 Development Kit_US Version

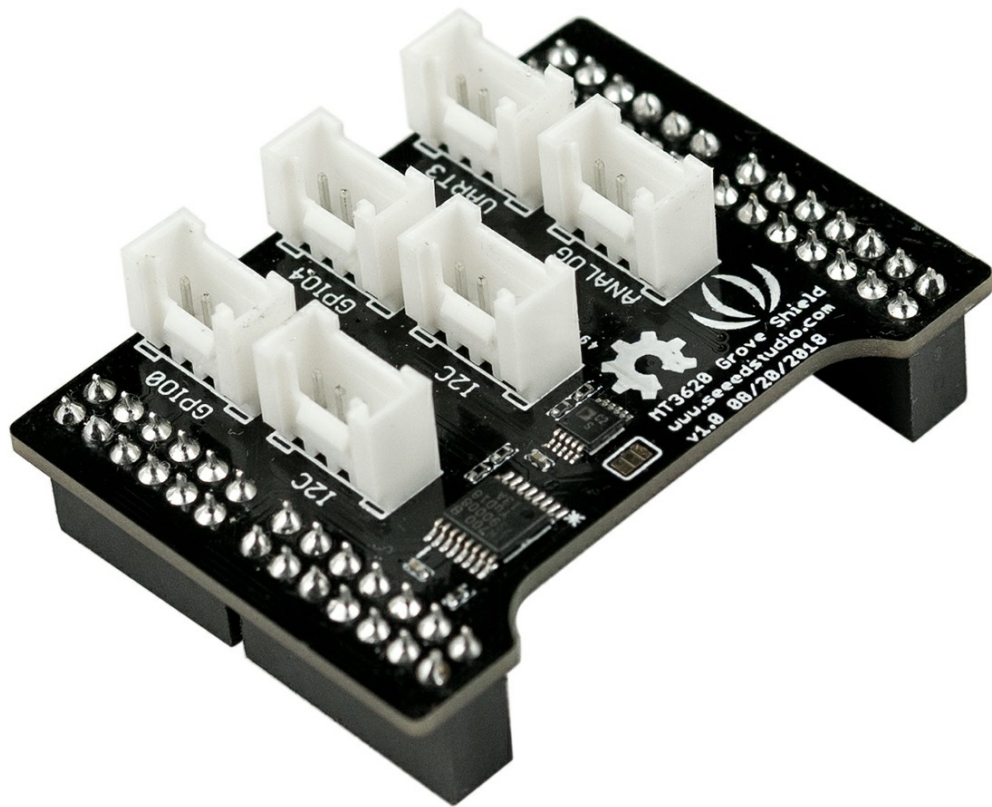
ADD TO CART



Azure Sphere MT3620 Development Kit_JP Version

Azure Sphere MT3620 Development Kit_JP Version

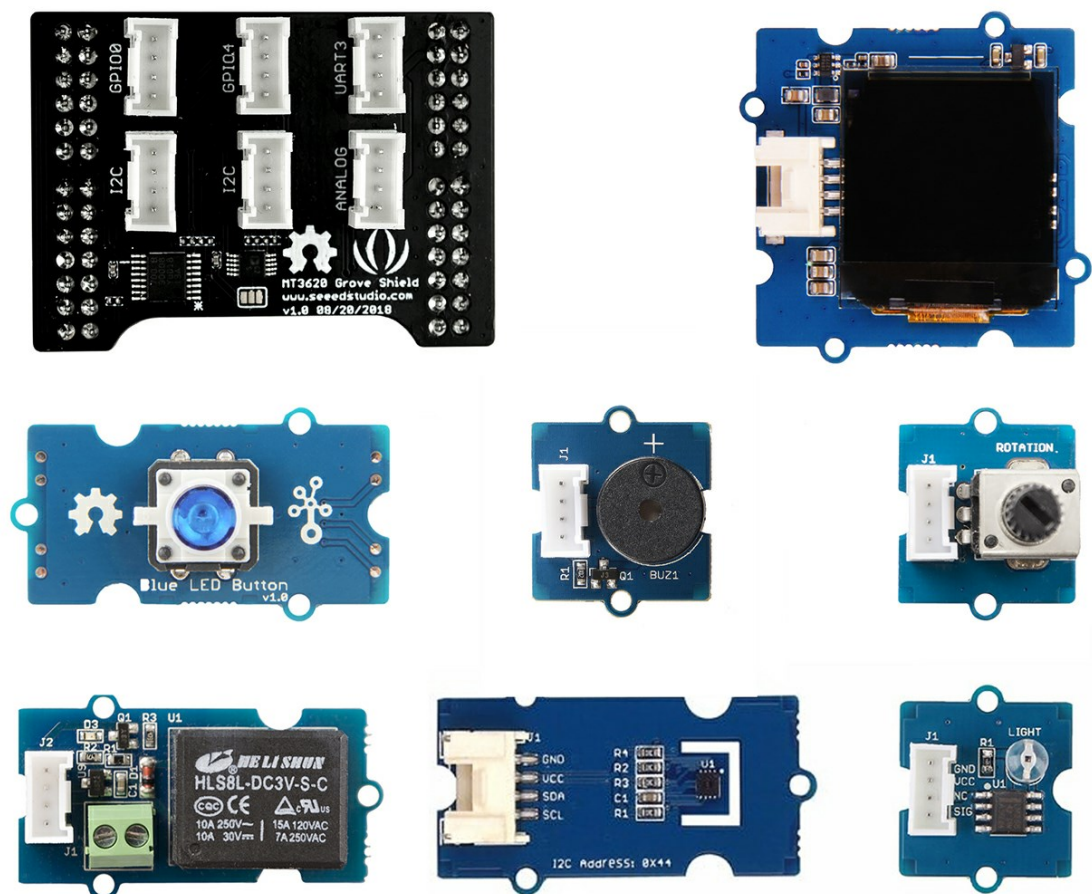
ADD TO CART



MT3620 Grove Shield

MT3620 Grove Shield

ADD TO CART



Grove Starter Kit for Azure Sphere MT3620 Development Kit

Grove Starter Kit for Azure Sphere MT3620 Development Kit

ADD TO CART

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, secure, and scalable solution that 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.

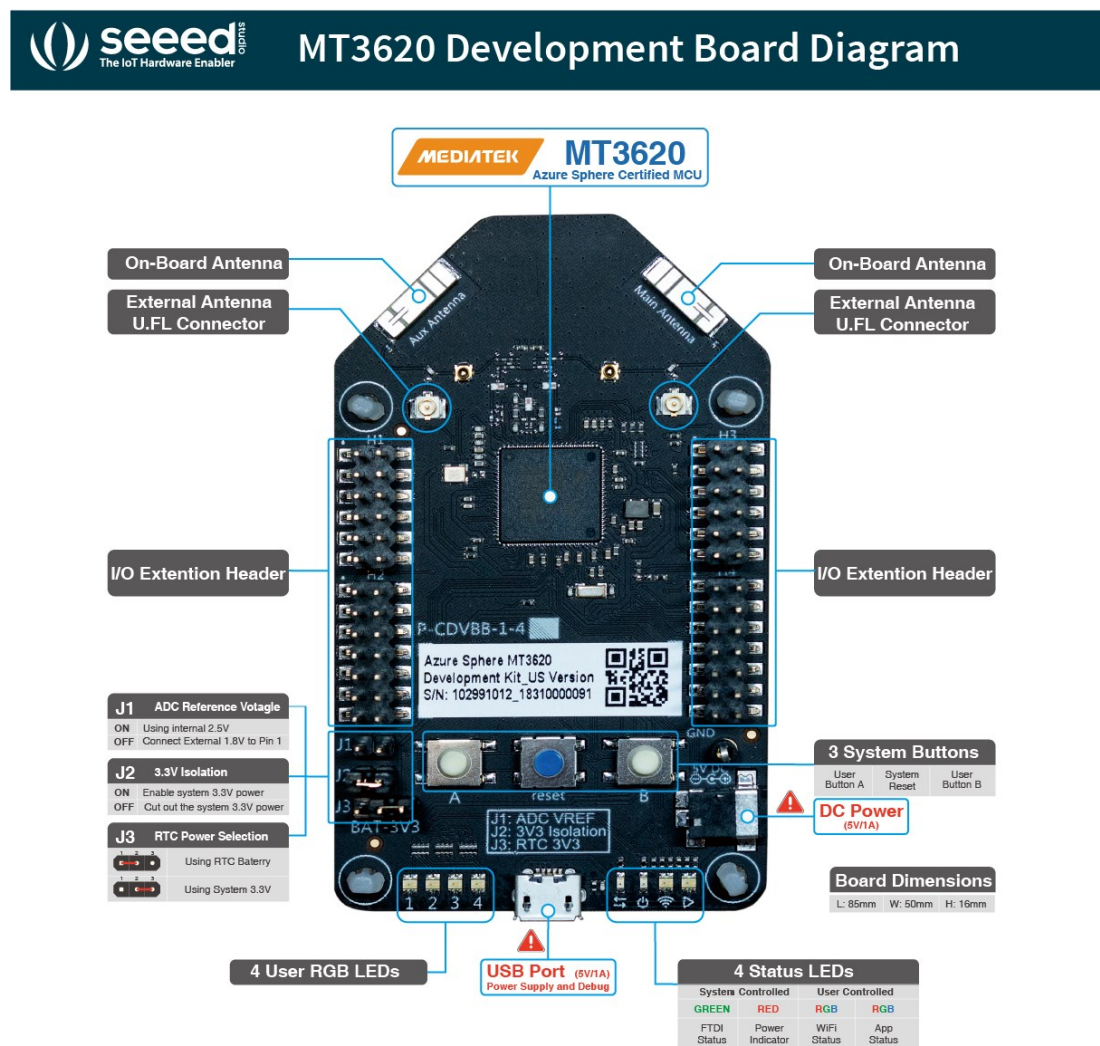
3.Cloud Security

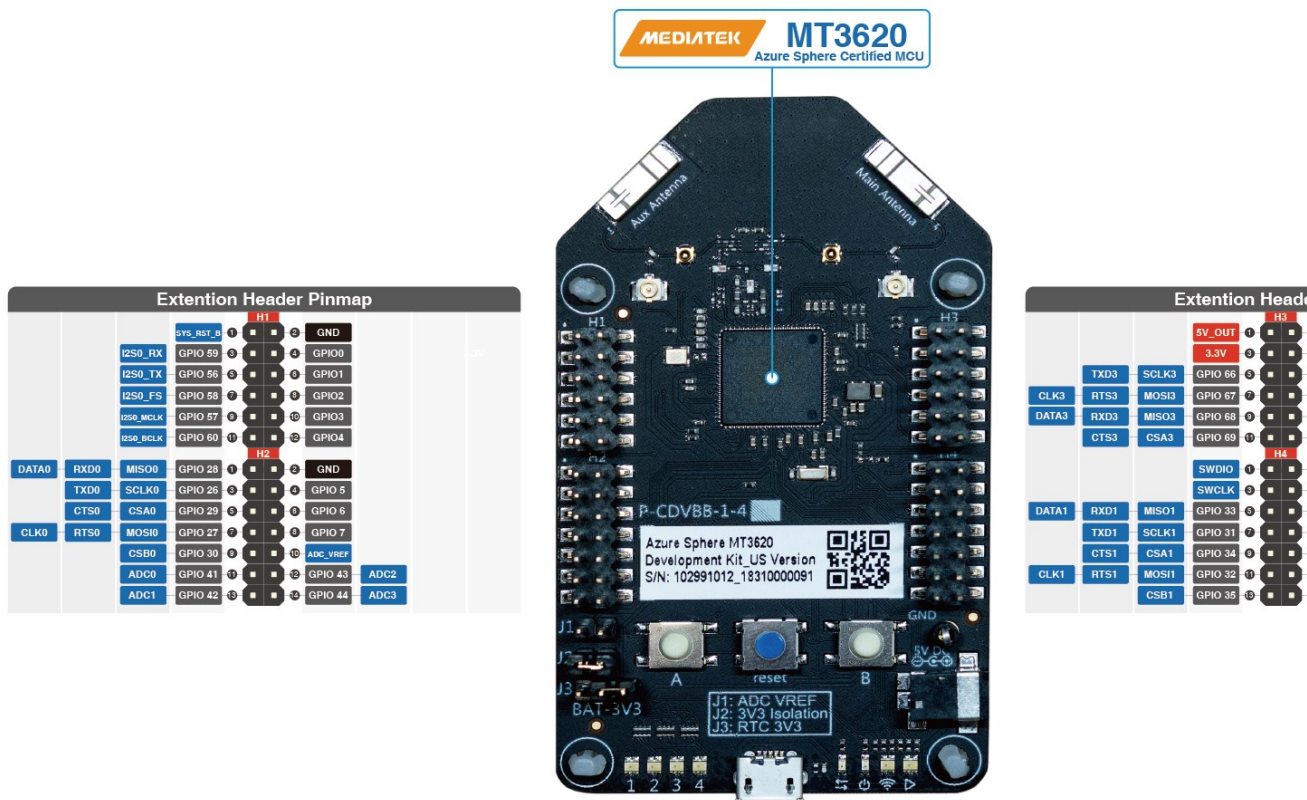
Protect devices with a cloud built for IoT security. The Azure Sphere Security Service renews device security, identifies emerging threats, and brokers trust between device, cloud, and other endpoints.

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 secured, 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. For more information, please refer to the MT3620 datasheet.

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 RAM• 2 * 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 1MHz• SPI 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_EU Version1

Micro USB Cable1

ECCN/HTS

ECCN5A002.a.1

HS CODE8471504090

Certification

RoHSCompliant

CertificationFCC,CE,MIC,ROHS

Documents

- Azure Sphere MT3620 Development Kit Product Brief.pdf
- MediaTek MT3620 Product Brief.pdf
- More information about Microsoft Azure Sphere
- Countries or regions available list
- License Terms for Azure Sphere OS and Azure Sphere Security Service – English
- License Terms for Azure Sphere OS and Azure Sphere Security Service – French (France)
- License Terms for Azure Sphere OS and Azure Sphere Security Service - French (Canada)
- License Terms for Azure Sphere OS and Azure Sphere Security Service – German
- License Terms for Azure Sphere OS and Azure Sphere Security Service- Turkish
- License Terms for Azure Sphere OS and Azure Sphere Security Service – Indonesian

Learn



[Wiki] Azure Sphere MT3620 Development Kit_EU 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

- 0

I want to control some hardware via RS485, what is the best way to do that? What kind of extra hardware do I need?

tobias.malm on Oct 30,2018

Hi there, the MT3620 board supports the UART, we can use the RS485 to TTL adapter, for example, [**https://www.robotshop.com/en/sfe-uart-to-rs-485-converter.html**](https://www.robotshop.com/en/sfe-uart-to-rs-485-converter.html). thanks.

Seeed Techsupport Team on Nov 01,2018 17:19 PM

Reply upvote (0)
- 0

Is there any way I can download the Azure Sphere image, e.g., TP 4.2.1 if I am not enrolled in "MS Collaborate" (as I am an individual but not a company) ?

garymok on Oct 17,2018

Hi there, please drop mail to techsupport@seeed.cc. thanks.

Seeed Techsupport Team on Oct 17,2018 11:43 AM

Reply upvote (0)
- 0

you will get charged customs PLUS £8 when you buy this for the UK

nikwakem on Oct 15,2018

Hello, Thanks for reaching out! We would set the parcel price as to lower customs fee. To view detailed shipping selection, please check this link: <http://support.seeedstudio.com/knowledgebase/articles/shipping-method> Best Regards

order on Nov 01,2018 17:50 PM
- 0

What is the difference between the US, EU and JP kits?

terry.phillips on Oct 04,2018

Hi terry, Because CE, FCC and MIC have different regulations on RF settings, like channel 13 is not available for FCC certification. In order to meet the certification regulation, we have 3 versions board. The US version has MIC while EU version meets CE. thanks.

Seeed Techsupport Team on Oct 10,2018 10:28 AM
- 0

I see Singapore is in Azure Sphere MT3620 Development Kit_EU Version availability document but I cannot checkout my purchase. Why?

kokleong98 on Sep 20,2018

Hi, EU Version is available in Singapore. Would you mind sending over your detailed mailing address so that we are able to have our tech department inspected it? Please directly forward to order@seeed.cc

yinghong.liu on Sep 20,2018 15:31 PM

Azure Sphere MT3620 Development Kit_EU Version

SKU 102991099     

IN STOCK
50+ Available

1

ADD TO CART

☐ I accept the restriction

- Related
- Description
- Technical Details
- Learn
- Questions and Answers

✕
Notify me when it's back in stock

SUBMIT
^

POPULAR SEARCHES

PCB Manufacturing PCB Assembly PCB Layout 3D Printing PCB Stencil Lora ReSpeaker Grove Lidar GPS Can-Bus Arduino Arduino Shield Beaglebone
Raspberry Pi FPGA LinkIt ONE Crazyflie 2.0 Raspberry Pi 3 Model B RF Explorer DSO Nano v3 HiKey rplidar raspberry pi relay RPLIDAR A2

Company

About Seeed
Distributors
Careers
Contacts

Help Center

How to Get Help
FAQ
Technical Support
Shipping & Order
Warranty & Returns
Payment Information

Community

Project Hub
Forum
Blog
Wiki

Stay Tuned

Subscribe to our newsletter.



Select Language