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MT3620 Mini Dev Board

SKU 102110267

★★★★★

- 1 +   CN Warehouse
Estimated availability Date: May 22, 2019

♥   Pre Order

Tags: AZURE SPHERE   MT3620   AZURE   SBC

Description   Documents   Learn   Reviews   FAQS

⚡ **Important Notice**

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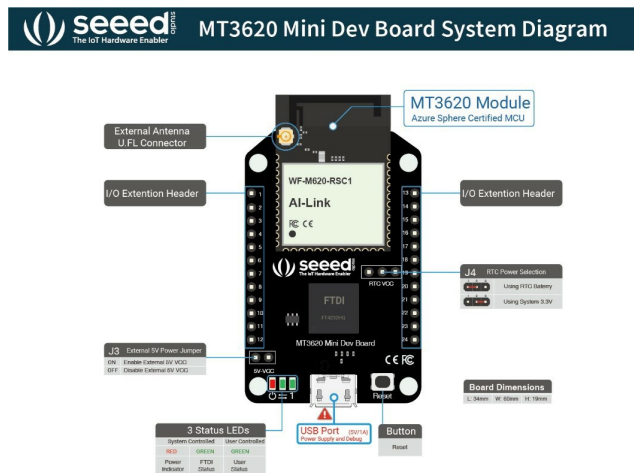**Overview**

MT3620 Mini Dev Board is a lite version of Seeed previous Azure Sphere MT3620 Development Kit. For an introduction to Azure sphere, please refer to this link Azure Sphere

We developed this board to meet the needs of developers who need smaller sizes, are more scalable, and have lower costs. This development board is based on the MT3620 module, which greatly simplifies the difficulty of hardware design. The MT3620 module is developed by our partner AI-Link. Developers can easily reuse this design into their own projects. The development board uses two single-row pin headers for easy plug-in on other motherboards or expansion boards. Unlike the full-featured Azure Sphere MT3620 Development Kit, this development board optimizes the design by reducing some system hardware peripheral resources, and only provides the necessary hardware resources to developers. In terms of hardware specifications, we only support 2.4G Wi-Fi and reduce I2S and some GPIO ports.
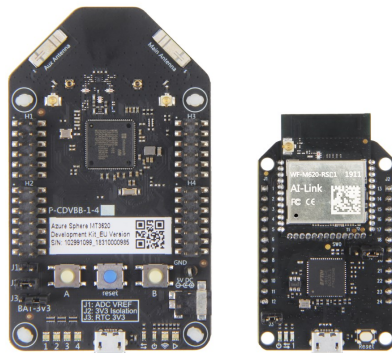
What's new of the MT3620 Mini Dev Board?

- Based on MT3620 module (WF-M620-RSA1)
- Reduce the board size from 50mm*80mm*16mm to 34mm*60mm*19mm
- Keep the necessary LED indicator and buttons
- The board form factor is more easier for add-on usage

The figure shows the full-feature dev board and new mini dev board size comparison:

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. Together the Azure Sphere OS and security service deliver:
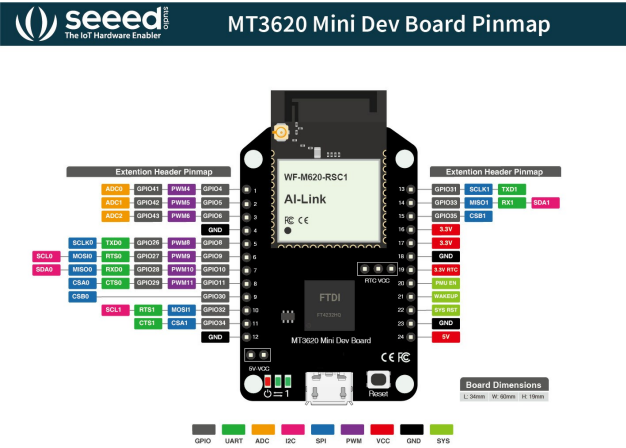
- certificate-based device authentication to any web service
- software attestation and secure boot
- threat detection via failure reporting
- ongoing security updates
- an integrated, secured end-to-end IoT solution

MT3620 software development is supported using the powerful Microsoft Visual Studio IDE: Install Visual Studio and the Azure Sphere extension, plug the development board into a PC over USB, and start developing IoT applications with unprecedented levels of security.

Key Features

- Azure Sphere: End-to-end security for IoT devices.
- Wi-Fi 802.11 b/g/n.
- Tri-core microcontroller with on-chip RAM & flash.
- Microsoft Visual Studio development environment.
- Online authentication & updates for device lifetime.
- Expand UART, I2C, SPI, ADC, GPIO resource on pin header.

Pinmap

Specification

	Hardware		Software	
MCU (using MT3620 module)	MT3620 • 1 * ARM Cortex A7 core @500MHz , 4MB RAM • 2 * ARM Cortex M4 core @200MHz , 64KB RAM		IDE	Visual Studio
ISU	ISU 0 configured as SPI0 or UART0 ISU 1 configured as SPI1 or UART1 or I2C1 • I2C runs at up to 1MHz • SPI runs at up to 40MHz, • UART runs at up to 3Mbps		System	Windows 10
			Language	C
Connectivity	802.11 b/g/n Wi-Fi			
ADC	3 * 12-bit ADC input I/O			
RTC	1 * RTC with CR1220 3V battery holder			
USB	1 * Micro USB port for power supply and debugging, 5V/1A			
LED	1 * RED LED -> Power 1 * GREEN LED -> FTDI status 1 * GREEN LED -> user controlled (can be configured as Wi-Fi status or other usage)			
Button	1* Reset Button			
Operating Temperature	-40~85°C			
Dimensions	L:34mm*W:60mm*H:19mm			
Certification	CE / FCC / MIC / RoHS			

Note:
[2019-03-13]

The current SDK does not support all features of the MT3620 hardware. The following are not yet supported:

- 2 x ARM Cortex-M4 with FPU
- ADC, I2S, and PWM peripheral interfaces

Technical details

Dimensions	34mm x60mm x19mm
Weight	G.W 21g
Battery	Exclude

Part List

MT3620 Mini Dev Board	1
Micro USB Cable	1

ECCN/HTS

ECCN	5A002.a.1
HSCODE	8517709000
UPC	
FCC	1
CE	1

Company

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