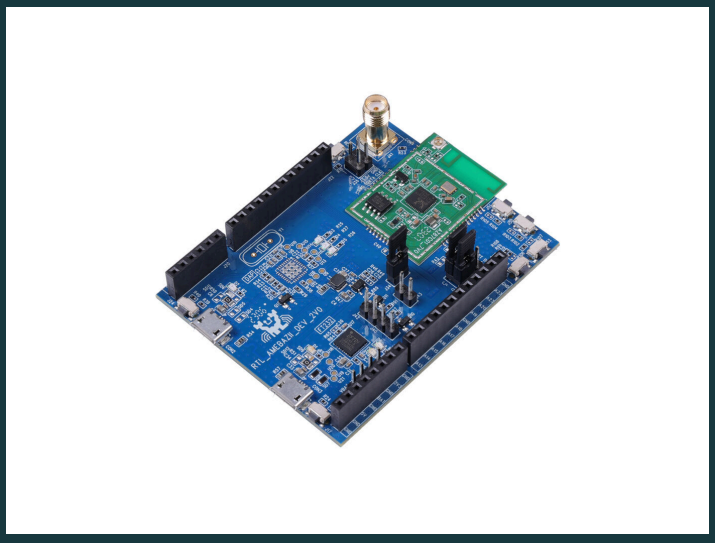
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Ameba Z2 AWS IoT ExpressLink Devkit - AWS IoT ExpressLink, Wi-Fi & Bluetooth, multiple IO resources, OTA upgrade

Ameba Z2 AWS IoT ExpressLink Devkit provides quick, secure AWS Cloud connectivity with Wi-Fi, Bluetooth, multiple IO interfaces, and OTA upgrade for IoT device control.

SKU	UPDATED	PRICE
102991757	2026-10-07 01:03:49	$34.90(Excl. VAT)



Overview

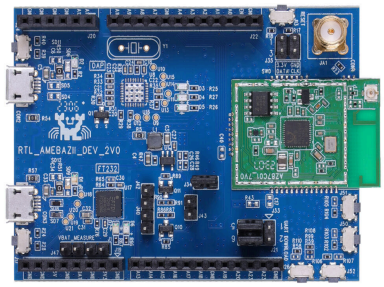


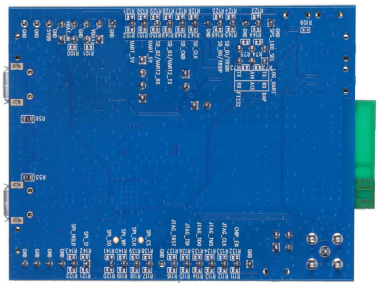
The Ameba Z2 AWS IoT ExpressLink Devkit is an AWS IoT development board powered by the RTL8720CM SoC with pre-installed AWS IoT ExpressLink for direct and secure access to AWS Cloud. It features OTA firmware upgrade, 802.11n Wi-Fi, Bluetooth 4.2, and multiple IO interfaces including UART, SPI, PWM, IIC, and configurable GPIOs, suitable for quick access to AWS Cloud, secure data management, and IoT device control.

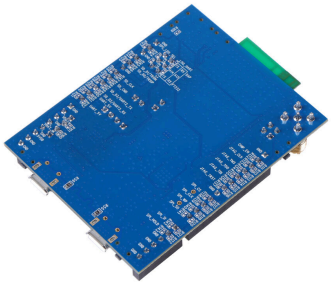
Key Features

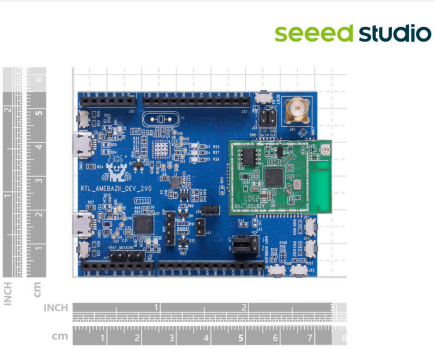
- **AWS IoT Development Board:** Powered by RTL8720CM SoC, pre-installed AWS IoT ExpressLink to provide direct access to AWS Cloud for secure data management
- **OTA(Over-the-Air) Firmware Upgrade:** Implement safe and convenient equipment upgrade
- **Wireless Capability:** Provide 802.11n Wi-Fi radio, Bluetooth 4.2 function
- **Multiple interfaces:** Offer multiple IO options such as UART, SPI, PWM, and IIC, along with configurable GPIOs for application and control flexibility

Product Gallery









Specification

Parameter	Detail
MCU	ARMv8M KM4, 100MHz
Memory	4.2MB internal RAM on SoC and 2MB external flash on Dev. Board
Wi-Fi	802.11 b/g/n 1×1 Wi-Fi (20/40MHz)
	Wi-Fi simple config
Bluetooth	BLE 4.2
	SIG Mesh (optional)
Security	Cryptographic operation
	Secure boot (optional)
	Wi-Fi WEP, WPA, WPA2, WPS

Interface	3 UART including 2 HS-UART and 1 log UART
	1 SPI (Master/Slave)
	1 I2C (Master/Slave)
	1 SDIO 2.0
	8 PWM
	Max. 16 GPIOs

Applications

- **Quick Access to AWS Cloud**
- **Secure Data Management**
- **IoT Devices Control**

Part List

Ameba Z2 RTL8720CM Dev. Board	X1
Ipex antenna	X1

Compliance & Logistics

HSCODE	8517180050
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	TAIWAN,CHINA

Resource Links

- https://www.seeedstudio.com/Ameba-Z2-AWS-IoT-ExpressLink-Dev-kit-p-5546.html
- User Manual
- Schematic
- Layout

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com