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Acconeer XM122 IoT Module - Product Brief

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如有问题,请通过以下方式联系我们!

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XM122 Product Offering

	Product		Description	Planned Release	Comment
	XM122	a (oner	IoT Module	Released	IoT module including Nordic nRF52840 SoC and A111 sensor
	XB122		Evaluation Board	Released	Evaluation board for XM122 IoT module. Connect SWDIO (enable SW flash & debug). Support for Exploration tool.
	IoT beacon accessories – Planned release Q1 2020				
	XA122		Battery PCB	Q1 2020	PCB board with coin cell battery holder (connected to XM122 via PCB micro connector)
	H122		Housing (IP67)	Q1 2020	IP67 housing Including wall mounting bracket. Support exchangeable lids (L122-1,L122-2,L122-3)
	L122-1	\bigcirc	Flat lid	Q1 2020	Flat lid to H122
	L122-2		FZP lens	Q1 2020	Lid including FZP lens to H122
2	L122-3		HPL lens	Q1 2020	Lid including HPL lens to H122

a(oneer XM122 IoT module – Product brief

<u>Overview</u>

- A111 60GHz PCR sensor with BT v5 support
- 32-bit ARM[®] Cortex[™] M4 MCU (Nordic nRF52840) 64 MHz
- Formfactor: 33 mm diameter
- 256KB SRAM and 1MB Flash. Support for FOTA.
- Support for coin cell battery
 - Note: Switched power regulator supported to generate operating 1.8V
- Temp sensor (MCU internal) & EEPROM (MCU internal)
- Internal 2.4 GHz antenna and support for external
- Optimized on low power consumption
- Operating temperature: -40°C to 85°C

Software configurations

• Delivered with bootloader enabling customer to download Acconeer RSS software including SDK for stand-alone usage.

Connectivity:

• BT v5, NFC (optional)

Usable Ext. I/F provided by B2B connector

- SPI, UART, I2C, GPIO and Reset
- SWD & JTAG trace for SW flash and debug
- VIO to enable dedicated 1.8V/3.0V single power supply

IoT Applications

- Distance measurement
- Tank level measurement
- Waste bin level measurement
- Parking space occupancy
- Presence detection
- Speed Detection (to be supported)

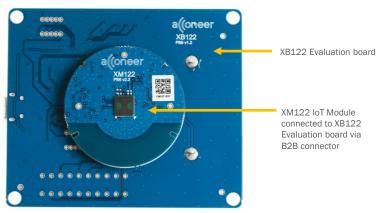


PROPRIETARY AND CONFIDENTIAL

a(oneer XB122 Breakout board

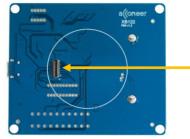
<u>Overview</u>

- XB122 breakout board for the XM122 IoT module.
- Designed for the purpose of flashing, debugging and easy access to all interfaces provided by the XM122 module.
- Support for UART communication over USB.
- 3.0V power supply via coin cell battery (CR2477) or USB supply.

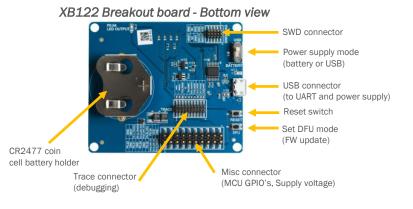


XM122 IoT module + XB122 Breakout board - Top view

XB122 Breakout board - Top view



B2B connector (30 pin) to connect the XM122 IoT Module



a(oneer XM122 IoT module - Estimated lifetime

Theoretical estimates given with BLE four second advertisement configuration

- Measurement once per second: ~214 days
- Measurement every ten seconds: ~1289 days
- Measurement once per minute: ~3790 days⁽¹⁾

Note: given estimates based on operating temperature intervall of 5°C to 50°C



