

XM126 IoT Module User Manual v1.5.9



Abstract

The XM126 is a reference module with optimized formfactor that can be used to support customer in their own design for commercial use, for evaluation and development purpose.

The XM126 is built around the A121 Pulsed Coherent Radar (PCR) sensor and the nRF52840 Bluetooth® 5 SoC (System on Chip) from Nordic Semiconductor and features an integrated antenna for Bluetooth connectivity.

The XM126 can be used as a stand-alone module where customer can embed their application on top of the Acconeer RSS (Radar System Software).

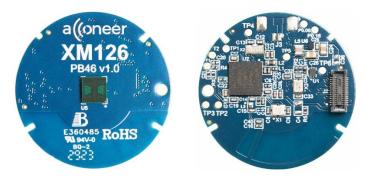


Figure 1. XM126 Top view (left) and XM126 bottom view (right).



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1 Revision History

Revision	Comment
v1.0	Released version
v1.1	Table 4.5 and 5.1 updated
v1.2	Ch 7.1: EU Type Examination Certificate included
v1.3	Table 4.3 "Low Power Wakeup"-preset power figures updated
V1.4	Ch 7.2 added
V1.5	Ch 7.2 updated. Ch 7.3 added

This document applies to the following product:

Product name	Part number
XM126	XM126



2 Functional description

2.1 Overview

The XM126 comes with Nordic nRF52840 SoC and A121 Pulsed Coherent Radar (PCR) sensor, see ref [1]. The Nordic nRF52840 SoC supports Bluetooth 5.4 BLE, Bluetooth Mesh, Thread, Zigbee, 802.15.4, ANT and 2.4 GHz proprietary stacks.

The XM126 is delivered with a bootloader enabling customer to download Acconeer RSS software including SDK (Software Development Kit) for stand-alone usage where customer can embed their own application on top of Acconeer RSS software. Acconeer RSS software provides API to set A121 sensor configuration and to retrieve radar service and detector data.

2.2 Product features

The XM126 is an IoT module based on Acconeer A121 pulsed coherent radar (PCR) and the Nordic nRF52840 SoC.

XM126 features:

- The A121 60 GHz Pulsed Coherent radar (PCR) with integrated baseband, RF front-end and Antenna in Package (AiP).
- Low power connected radar module.
- The nRF52840 protocol stack support for Bluetooth 5.4 supporting BLE, Bluetooth mesh, Thread, Zigbee, 802.15.4, ANT and 2.4 GHz proprietary stacks and is built around the 64 MHz ARM® CortexTM-M4 CPU with 256 KB SRAM and 1 MB Flash.
- Integrated 2.4 GHz antenna.
- Optional NFC antenna support for quick Bluetooth pairing via the PCB test points.
- Optimized circular form factor with a diameter of 33 mm.
- Wide single supply operating voltage range 1.8 V to 5.5 V.
- Operating temperature -40° to 85°C.
- External I/F support SPI, UART, I2C, GPIO, Reset.
- SWD/JTAG for SW flash and debug.

The XM126 can be used for accurate distance measurement, tank level measurement, surface velocity measurement, waste bin level measurement, parking space occupancy, human presence detection, speed measurement, breathing monitoring, gesture control, inventory monitoring and vibration measurement:

- Measures absolute distance up to 20 m, dependent on object, object size, shape, and dielectric properties.
- High precision distance measurements with mm accuracy and high update rate.
- High precision relative measurement with µm accuracy.
- Human presence detection with high accuracy and the possibility to define multiple detection zones.

Easy integration:

• XM126 can be integrated behind plastic or glass without any need for a physical aperture. See ref [5] *User guide – Sensor Integration Electromagnetic Scattering* for more information.



2.3 Block diagram

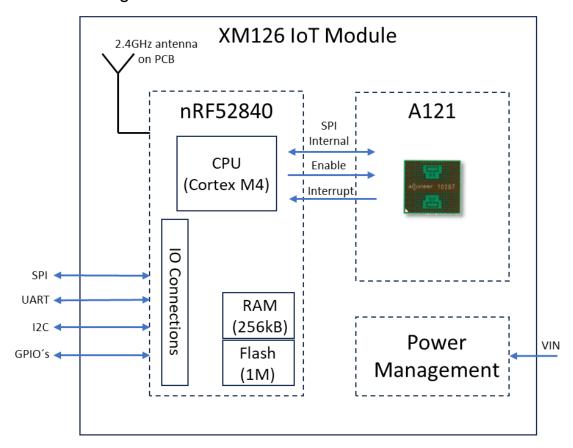


Figure 2.1. XM126 block diagram.

The XM126 block diagram shows the A121 60 GHz PCR radar connected to the nRF52840 microcontroller. The module provides a pin connector where the MCU external I/F are accessible including single voltage supply.



2.4 Module board connector and pin description

The board-to-board connector provides the external interface to the module. Figure 2.2 shows the connector footprint and Table 2.1 describes each signal. All GPIOs on XM126 have an operating voltage of 1.8V.



Figure 2.2. XM126 J2 connector footprint.

Pin Signal		Description	nRF52840*
Number			pin
1	GPIO		P0.23
2	GND	Ground	-
3	GND	Ground	-
4	VIN	1.8-5.5 V external power supply. Pin 4 and Pin 6 are interconnected.	-
5	GPIO		P0.21
6	VIN	1.8-5.5 V external power supply. Pin 4 and Pin 6 are interconnected.	-
7	GND	Ground	-
8	GND	Ground	-
9	GPIO		P0.24
10	GPIO	Configurable as Analog Input.	P0.04
11	GND	Ground	-
12	GPIO	Configurable as JTAG Trace signal.	P0.11
			TRACEDATA2
13	GPIO		P0.22
14	GPIO	Configurable as JTAG Trace signal.	P0.12
			TRACEDATA1
15	GND	Ground	-
16	VDD	Regulated 1.8 V output voltage.	-
17	GPIO/UART_RX	Default configuration in Acconeer exploration server and SDK is UART. Could also be used as miscellaneous GPIO.	P0.06
18	GPIO, nRESET	nRF52840 reset pin.	P0.18
			nRESET



19	GPIO/UART_TX	Default configuration in Acconeer exploration server and SDK is UART. Could also be used as miscellaneous GPIO.	P0.16
20	SWDIO	SWD interface for flash and debug.	SWDIO
21	GND	Ground	-
22	GPIO, SWO	SWD interface for flash and debug. Configurable as JTAG Trace signal.	P1.00 TRACEDATA0
23	GPIO	Configurable as JTAG Trace signal.	P0.07 TRACECLK
24	GND	Ground	-
25	GPIO	Configurable as JTAG Trace signal.	P1.09 TRACEDATA3
26	SWDCLK	SWD interface for flash and debug.	SWDCLK
27	GPIO/UART_RTS	Default configuration in Acconeer Exploration Server SW is UART. Could also be used as miscellaneous GPIO.	P0.20
28	GND	Ground	-
29	GPIO/UART_CTS	Default configuration in Acconeer Exploration Server SW is UART. Could also be used as miscellaneous GPIO.	P0.19
30	GPIO, DFU	Device Firmware Upgrade. Set low during reset to enter bootloader mode. Could also be used as miscellaneous GPIO.	P0.25

Table 2.1. J2 connector pinout.

2.5 Not mounted battery connector support

Not mounted battery connector (Reference Designator J3) supported on XM126 PCB. See chapter 5 schematics for further information. Example of compatible battery connectors:

- Vertical Amphenol 10114828-10102LF
- Horizontal Amphenol 10114828-1010LF
- Horizontal Molex 532617002



2.6 Software options

The XM126 module can be used as stand-alone module where the module operates as an independent system. The application is customized to a specific use case by the customer and runs on the embedded MCU. The customer application is accessing the RSS API.

Using the XM126 as stand-alone module Acconeer offers SDK that provides RSS, hardware abstraction layer, device drivers and build system. Based on SDK it is possible for the customer to develop their own application. Both RSS and applications runs on the embedded MCU.

2.7 MAC addresses

The XM126 module comes with a Static Random Bluetooth Address provided by the Nordic nRF52840 SoC. This address is assigned randomly during manufacturing. This static address can be used for evaluation.



3 Interfaces

3.1 Module supply input

The XM126 support external single power supply for battery power applications, see table 4.2 recommended operating conditions.

Note that supply voltage conditions (E.g. slew rate) need to be taken into consideration according to nRF52840 datasheet, ref [4].

3.2 System functions

Module RESET is supported by activating NRST pin (active low).

3.3 Serial interfaces

The XM126 nRF52840 GPIO pins can be configured to support up to two UART, up to four SPI master or three SPI slave and up to two I2C compatible 2-wire master/slave external serial interfaces. See table 2.1 for HW configuration. See also nRF52840 datasheet, ref [4] for further information.

3.4 Digital I/O interfaces

The XM126 module support General Purpose IOs (GPIOs) that operates at 1.8V, 16 GPIOs are available. The GPIO pins are configurable for different functions, only the debug and RESET pins are fixed to specific GPIOs. See table 2.1 for HW configuration. See also nRF52840 datasheet, ref [4] for further information.

3.5 Analog I/O interfaces

The XM126 module support one analog input (pin 10 on XM126 connector J2) and up to four individual PWM outputs which can be assigned to any of the GPIO pins. See table 2.1 for HW configuration.

3.6 Module reset

The XM126 has an external reset option (Pin 18 on XM126 connector J2) that can be configured as a GPIO or RESET input.

3.7 Debug interface

The XM126 has 7 debug pins, SWDIO, SWDCLK and Trace signals. TRACE signals reuse GPIO pins. The debug pins have an operating voltage of 1.8V. See table 2.1 for HW configuration.



4 Electrical specifications

4.1 Absolute maximum ratings

The below table shows the XM126 absolute maximum ratings over operating temperature range, unless otherwise noted:

Parameter	Description	Min.	Max.	Unit
VIN	power supply	-0.3	6.0	V
I/O	Voltage on I/O pins	-0.3	2.1	V
Тор	Operating temperature range	-40	85	°C
T _{STG}	High temperature storage		125	°C

Table 4.1. Absolute maximum ratings.

Stresses beyond those listed in table 5.1 may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these conditions or at any other conditions beyond those indicated under Recommended Operating Conditions is not implied. Exposure to absolute-maximum-rated conditions for extended periods of time may affect device reliability.

4.2 Recommended operating conditions

The below table shows the XM126 recommended operating conditions:

Parameter	Min.	Тур.	Max.	Unit
VIN, operating power supply voltage ¹⁾	1.8		5.5	V
I/O operating range	0		1.8	V
Operating temperature ¹⁾	-40		85	°C

Table 4.2. Recommended operating conditions.

¹ Minimum battery voltage depends on battery internal resistance and temperature.



4.3 Power consumption summary

The below table summarizes the XM126 power consumption, maximum current ratings and average current ratings at power terminal at $T_A = 25$ °C and 2.0 V/3.0 V supply:

Parameter	Min.	Тур.	Max.	Unit
Average power consumption, 2.0 V supply, 0.1 Hz update rate		1.67		mW
Average power consumption, 3.0 V supply, 0.1 Hz update rate		1.68		mW
Average power consumption, 2.0 V supply, 1 Hz update rate		16.6 (1)		mW
Average power consumption, 3.0 V supply, 1 Hz update rate		16.7		mW
Average power consumption, 2.0 V supply, 2 Hz update rate		33.4		mW
Average power consumption, 3.0 V supply, 2 Hz update rate		33.5 (1)		mW
Average power consumption, 2.0 V supply, 1 Hz update rate		0.15		mW
Average power consumption, 3.0 V supply, 1 Hz update rate		0.15		mW
Average power consumption, 2.0 V supply, 2 Hz update rate		0.26		mW
Average power consumption, 3.0 V supply, 2 Hz update rate		0.26		mW
Idle current, 3.0V supply		4.35		μΑ

Table 4.3. Average power dissipation ratings at power terminal.

¹ Configuration according to the 'Medium Tank'-preset in the Tank Level Reference Application. Bluetooth advertisement according to given update rate.

² Configuration according to the 'Low Power Wakeup'-preset in the Presence Detector Example Application. Bluetooth advertisement according to given update rate.

³ Sensor is disabled and nRF52840 is in sleep mode (System ON) with full RAM retention and wake-up on RTC enabled.



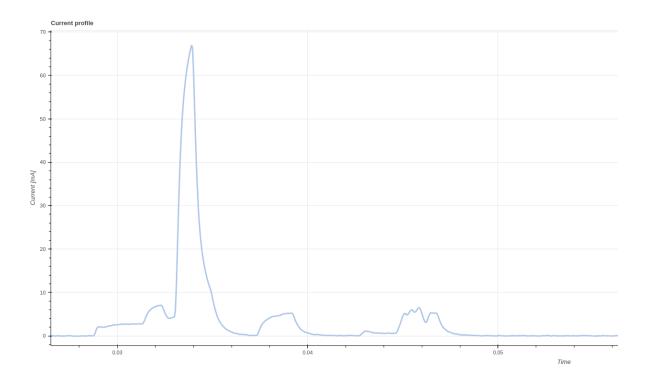


Figure 4.1. Current profile, Low Power Wakeup, 2.0V supply.

4.4 RF specification

The below table shows the XM126 A121 PCR RF specification:

Parameter	Min.	Тур.	Max.	Unit
Operating frequency range	57		64	GHz
EIRP (Equivalent Isotropically Radiated Power)		11		dBm
TX HPBW (Half Power Beam Width), elevation plane (1)	42	53	64	degrees
TX HPBW (Half Power Beam Width), horizontal plane (1)	52	65	78	degrees

Table 4.4. XM126 RF specification.

The XM126 support Bluetooth v5.4 including BLE, mesh, long range and advertising extensions.

The below table shows the XM126 Bluetooth radio performance:

Parameter	Min.	Тур.	Max.	Unit
Frequency (40 channels)	2.4		2.48	GHz
Supported data rates		512 kbps – 2 Mbps		Mbps
EIRP (4 dBm conducted power) 1		7.3		dBm
Antenna gain		5.3		dBi

Table 4.5. XM126 Bluetooth radio performance.

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⁽¹⁾Based on simulation

¹ Output power can be increased to 8 dBm but the power spectral density requirement in EN 300 328 of 10 dBm/MHz must be compliant for the intended Bluetooth data rate.

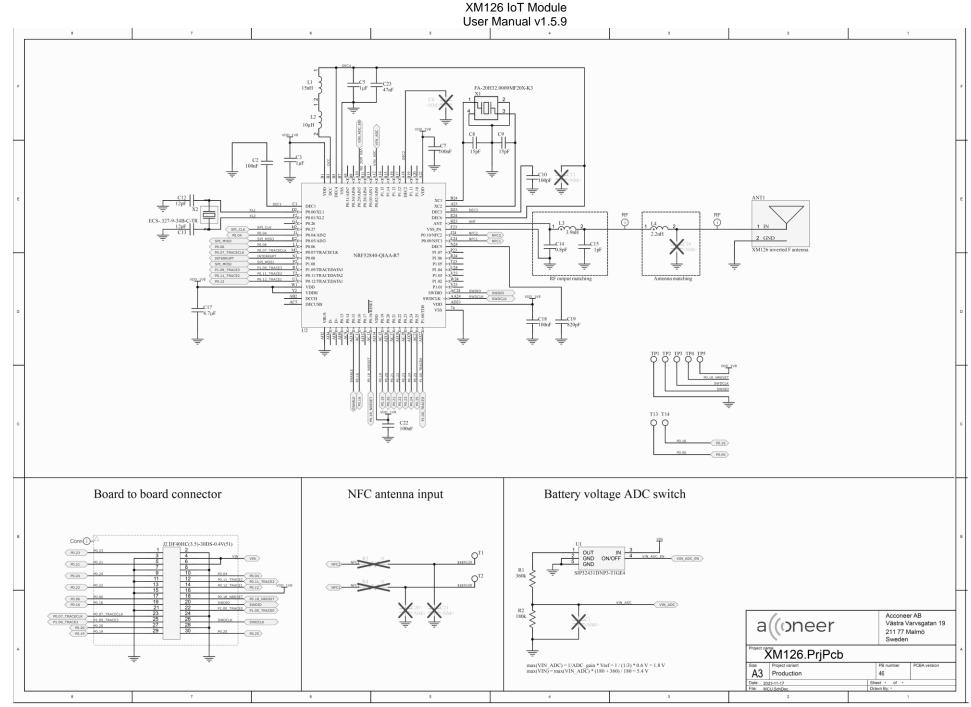


5 Reference design description

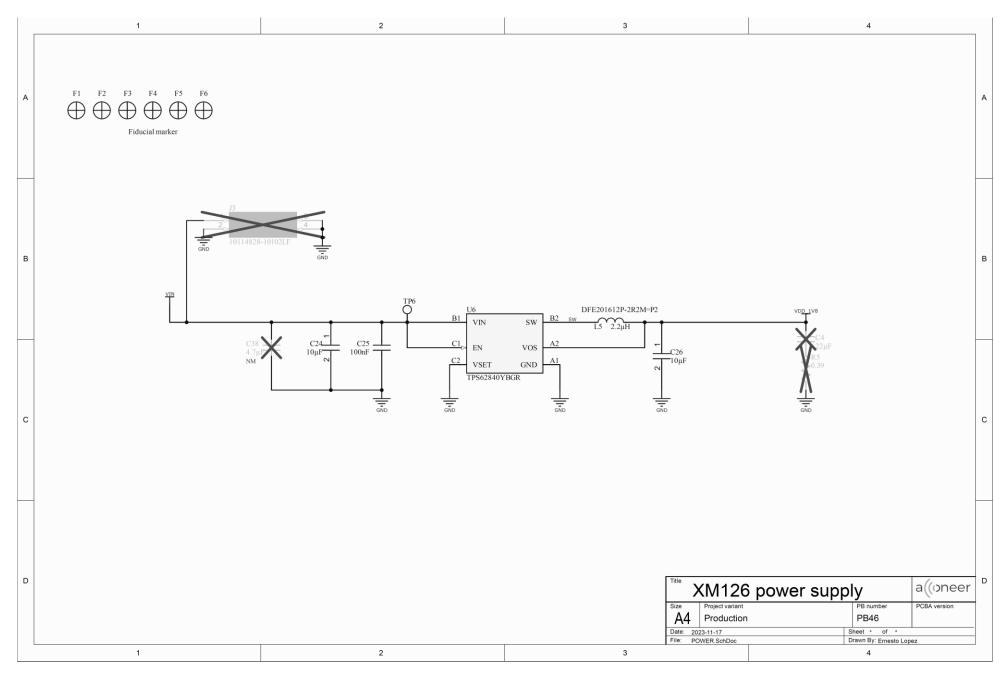
5.1 Schematics & BOM

The following pages include the module schematics and bill of materials:

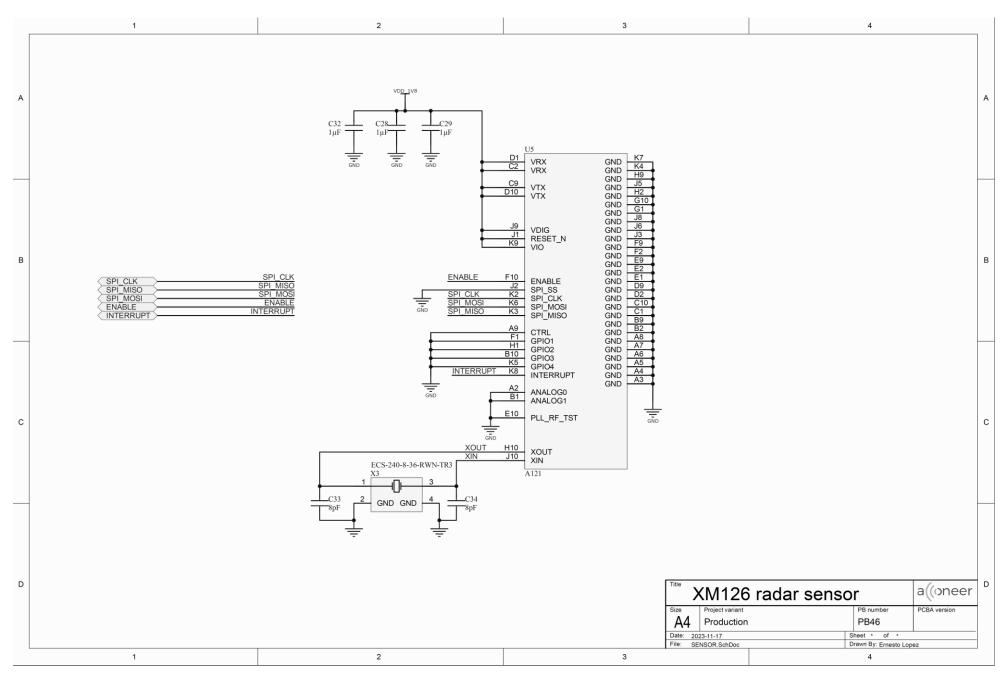














Bill of Material

Table 5.1 shows the BOM for XM126.

Component Ref.	Specification	QTY	Value	Comment
C2, C7, C18, C22, C25	100nF/50V/10%/M1005/X7R	5	100nF	
C3, C5, C28, C29, C32	1uF/10V/10%/M1005/X5R	5	1uF	
C8, C9	15pF/50V/5%/M1005/C0G	2	15pF	
C10	100pF/50V/10%/M1005/X7R	1	100pF	
C12, C13	12pF/50V/5%/M1005/C0G	2	12pF	
C14	0.8pF/50V/5%/M1005/C0G	1	0.8pF	
C15	1pF/50V/5%/M1005/NP0	1	1pF	
C17	4.7uF/10V/10%/M1005/X5R	1	4.7uF	
C19	820pF/50V/5%/M1005/NP0	1	820pF	
C23	47nF/50V/10%/M1005/X7R	1	47nF	
C24, C26	10uF/16V/10%/M2012/X7R	2	10uF	
C33, C34	8pF/50V/5%/M1005/C0G	2	8pF	
J2	DF40HC(3.5)-30DS-0.4V(51)	1		Board-to-board connector
L1	15nH/5%/320mOhm/M1005	1	15nH	LQG15HS15NJ02D
L2	10uH/20%/600mOhm/M1608	1	10uH	MLZ1608N100LT0 00
L3	3.9nH/+- 0.1nH/130mOhm/M1005	1	3.9nH	LQG15HN3N9B02 D
L4	2.2nH/+-0.1nH/90mOhm/M1005	1	2.2nH	LQG15HN2N2B02 D
L5	2.2uH/20%/144mOhm/M2016	1	2.2uH	DFE201612P- 2R2M=P2
R1	360kOhm/1%/M1005	1	360kOhm	0.0625W@70°C, 50V
R2	180kOhm/1%/M1005	1	180kOhm	0.0625W@70°C, 50V
U1	SIP32431DNP3-T1GE4	1	N/A	Power switch
U2	nRF52840-QIAA	1	N/A	MCU/BT module
U5	A121	1	N/A	Acconeer Pulsed Coherent Radar
U6	TPS62840YBGR	1	N/A	Power Regulator
X1	32MHz/10ppm/10pF/50Ohm	1	32 MHz	FA- 20H32.0000MF20 X-K3



X2	32.768kHz/10ppm/9pF/70kOhm	1	32.768kHz	ECS327-9-34B-C
Х3	24MHz/15ppm/8pF/60Ohm	1	24 MHz	ECS-240-8-36- RWN

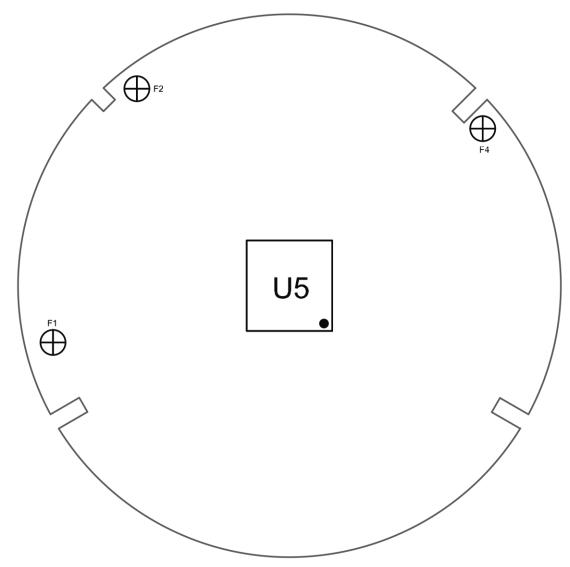
Table 5.1. XM126 BOM list.



5.2 Component Placement Drawing

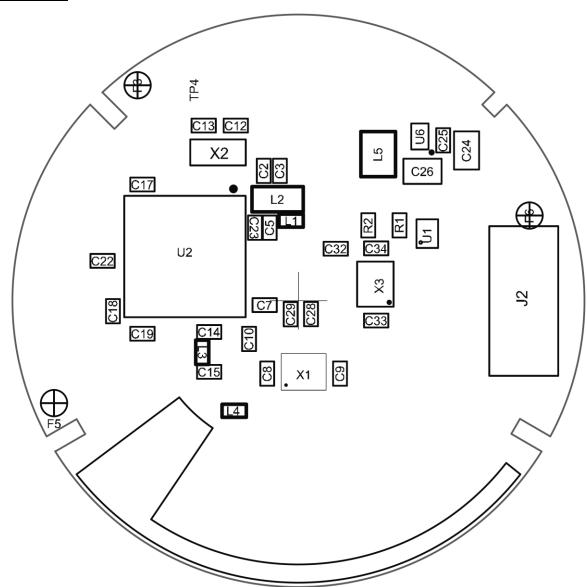
The component placement drawing of XM126 is found below:

Top side:





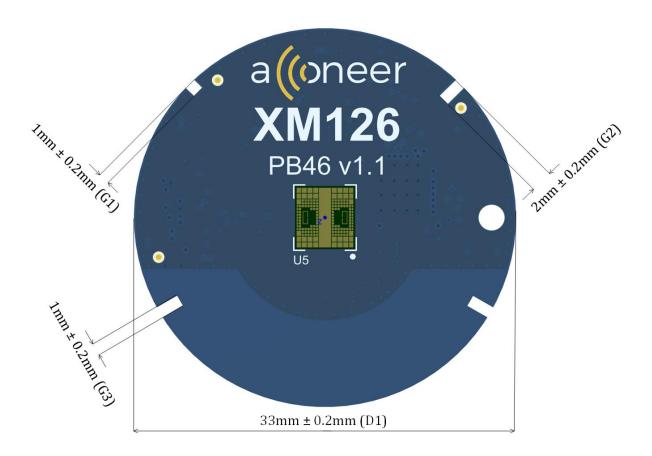
Bottom side:





6 Mechanical specifications

XM126 Module outline - Top view





XM126 Module outline – Side view



Distance	Value	Tolerance
D1	33.0 mm	+/-0.2 mm
G1	1.0 mm	+/-0.2 mm
G2	2.0 mm	+/-0.2 mm
G3	1.0 mm	+/-0.2 mm
H1	0.82 mm	+/-0.07 mm
H2	0.8 mm	+/-0.08 mm
H3	3.4 mm	+/-0.15 mm



7 Regulatory Approval

To be noted is that some regulatory specifications also specify usage of the module, so users of the module must check regulatory requirements for their own use case and determine of the regulatory approvals described below are sufficient.

7.1 ETSI

Hereby, Acconeer declares that the XM126 module is compliant with directive 2014/53/EU. The XM126 module fulfills the CE marking.





7.2 FCC Approval

The XM126 module is compliant to 47 CFR part 15 section 15.255 (c)(3) and FCC part 15.247: Bluetooth (LE 1 Msps / 2 Msps) applications in the area of 2.4 GHz. The XM126 module has limited modular approval granted by FCC with FCC ID: 2AQ6KXM002. The modular approval is limited due to lack of shielding and inability to demonstrate compliance in standalone configuration.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Acconeer may void the FCC authorization to operate this equipment.

The host manufacturer must ensure that the module limiting conditions are fulfilled for the host product according to the LMA test plan, see chapter 7.2.1, and that the installation instructions provided by Acconeer in this document have been followed.

Permissive Class II or new certification is required for every host installation.

The host manufacturer can apply for a "Change in ID", permitted by the manufacturer, which allows a copy of the manufacturer approval. The host manufacturer can then add its end device to the module approval using the "Permissive change Class II" procedure.

The module manufacturer can also add an end device to the FCC ID: 2AQ6KXM002 approval for the host manufacturer using the "Permissive change Class II" procedure.

For each "Permissive change Class II" procedure, host compliance tests must be submitted according to the specifications described in the LMA test plan (see Chapter 7.2.1).

Radiation Exposure Statement, the host manufacturer must ensure that minimum distance of 2 cm to humans is maintained in the final configuration.

The modular approval covers use with dielectric lens that converge or diverge the electromagnetic waves in at least one plane of radiation (E or H plane). Only lenses that result in the same or lower EIRP are covered by the limited single-modular transmitter approval.

The host device shall be labelled to identify the modules within the host device, which means that the host device shall be labelled to display the FCC ID of the module preceded by words "Contains transmitter module" or "Contains", E.g.

Contains FCC ID: 2AQ6KXM002

The module integrator must include below statement:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.



7.2.1 LMA test plan

This module is limited as it does not have RF shielding and cannot be tested stand alone. The following testing is mandatory to be performed to demonstrate continued compliance:

- Radiated power (EIRP) according to §15.255(c) for the radar part, §15.247(b) and §15.247(c) for the BLE part, mode 1 Msps.
- Radiated spurious emission according to §15.255(d) for the radar part, §15.247(d) for the BLE part, mode 1 Msps.
- Occupied bandwidth according to §15.215(c) for the radar and BLE part, mode 1 Msps.

, while operating the host as a composite system, with all the transmitters operating simultaneously.

7.2.2 47 CFR Part 15 subpart B disclaimer

The XM126 modular transmitter is only FCC authorized for 47 CFR part 15 section 15.255 (c)(3) and FCC part 15.247: Bluetooth (LE 1 Msps / 2 Msps) applications in the area of 2.4 GHz. The host product manufacturer is responsible for compliance to any other FCC rule that apply to the host not covered by the modular transmitter grant of certification.

The XM126 module is compliant to EMC according to FCC part 15B. The host manufacturer is responsible for demonstrating compliance with FCC part 15B for the final product.



7.3 Industry Canada Approval

The XM126 IoT module is compliant to RSS-210 — Licence-Exempt Radio Apparatus: Category I Equipment.

IC certification number: 24388-XM126

Le module IoT XM126 est conforme à la norme RSS-210 – Appareils radio exempts de licence: equipment de catégorie I.

Numéro d'identification IC: 24388-XM126

7.3.1 Regulatory Information Canada

Acconeer has not approved any changes to this device. Any changes or modifications to this device could invalid the usage of the module.

Acconeer n'a pas approuvé aucun changement de ce dispositif. Tout changement ou toute modification de ce dispositif pourrait invalider l'usage du module.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure

Radiation Exposure Statement, this equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 2cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 2cm entre le radiateur et votre corps.

Labelling requirements for the host device

The host device should be labelled to identify the modules within the host device, which means that the host device shall be labelled to display the IC of the module preceded by words "Contains transmitter module" or "Contains", or similar wording expressing the same meaning, as follows

Contains IC: 24388-XM002

Le dispositif hôte doit être étiqueté afin d'identifier les modules du dispositif hôte, ce qui veut dire que le dispositif hôte doit être etiqueté pour exposer le IC du module précedé par les mots "Contient module émetteur" ou "Contient", ou des termes similaires exprimant le même sense, comme suit:

Contient IC: 24388-XM002



8 Reference documents

[1]	A121 Pulsed Coherent Radar (PCR) Datasheet:
	https://www.acconeer.com/products
[2]	XM126 IoT Module Evaluation Kit, User guide
	https://www.acconeer.com/products
[3]	XB122 IoT Module Breakout board, Product brief
	https://www.acconeer.com/products
[4]	Nordic nRF52840:
	Nordic Semiconductor
[5]	User Guide – Sensor Integration Electromagnetic Scattering
	https://www.acconeer.com/products



9 Abbreviations

AiP	Antenna in Package
API	Application Programming Interface
BLE	Bluetooth Low Energy
ВОМ	Bill of Materials
EIRP	Equivalent Isotropically Radiated Power
GND	Ground
GPIO	General Purpose Input/Output
HPBW	Half Power Beamwidth
HW	HardWare
I2C	Inter-Integrated Circuit
MAC	Media Access Control
MCU	MicroController Unit
NVM	Non-Volatile Memory
PCR	Pulse Coherent Radar
RF	Radio Frequency
RSS	Radar System Software
SDK	Software Development Kit
SoC	System on Chip
SPI	Serial Peripheral Interface
SW	SoftWare
SWD	Serial Wire Debug
UART	Universal Asynchronous Receiver/Transmitter



Disclaimer

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