

ITEM NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	QTY
1	SABLE-X-R2	CC2640R2F BLE MODULE	LAIRD CONNECTIVITY	1
2	G-052072	SPECIFICATION FOR LABEL	GAUTHIER BIOMEDICAL	1

REVISIONS			DATE	APPROVED
REV.	DESCRIPTION			

CURRENT REGULATORY CERTIFICATIONS

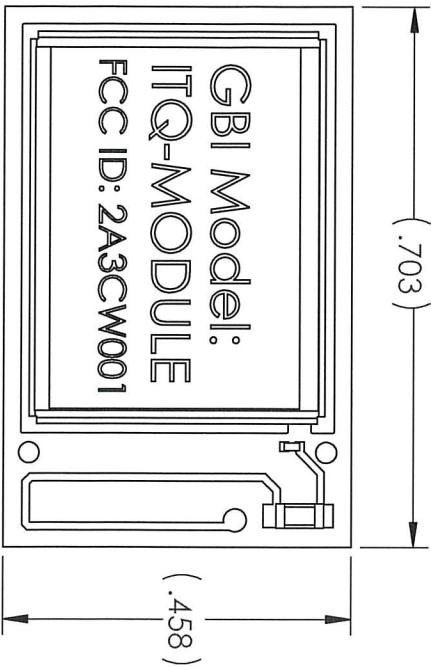
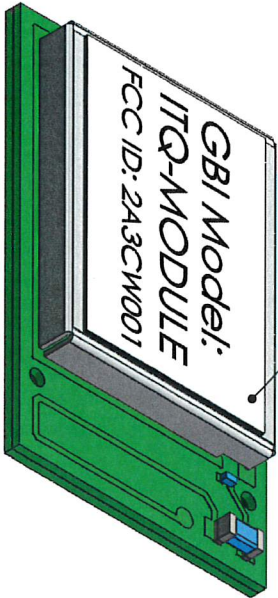
COUNTRY/REGION	MODEL NAME	REGULATORY ID
USA (FCC)	15.247	ITQ MODULE
		2A3CW001

CERTIFIED ANTENNAS

PART NUMBER	MANUFACTURER	TYPE	CONNECTOR	GAIN (dbi)
001-0001	LAIRD CONNECTIVITY	DIPOLE	U.FL TO RPSMA CABLE	2 dbi
001-0014	LAIRD CONNECTIVITY	PIFA	IPEX U.FL	2 dbi
001-0015	LAIRD CONNECTIVITY	FLEXNOTCH	IPEX U.FL	2 dbi
001-0030	LAIRD CONNECTIVITY	PIFA	IPEX U.FL	2 dbi
N/A	LAIRD CONNECTIVITY	PCB PRINTED	IPEX U.FL	2 dbi

NOTE: THE OEM IS FREE TO CHOOSE ANOTHER VENDOR'S ANTENNA OF LIKE TYPE AND EQUAL OR LESSER GAIN AS AN ANTENNA APPEARING IN THE TABLE AND STILL MAINTAIN COMPLIANCE. REFERENCE FCC PART 15.204(c)(4) FOR FURTHER INFORMATION ON THIS TOPIC.

NOTE: TO REDUCE POTENTIAL RADIO INTERFERENCE TO OTHER USERS, THE ANTENNA TYPE AND GAIN SHOULD BE CHOSEN SO THAT THE EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) IS NOT MORE THAN THAT PERMITTED FOR SUCCESSFUL COMMUNICATION.



SEE PAGE 2 FOR END PRODUCT INTEGRATION INSTRUCTIONS
SEE PAGE 3 FOR FCC COMPLIANCE INFORMATION

LIMITED FOR USE IN GAUTHIER
BIOMEDICAL (OEM) INSTRUMENTS ONLY

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INSPECTION
SYMBOLS



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.020 .XX ±1°
.XXX ±.005 .XXX ±.0005



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APPROVALS

DRAWN PJS 1/31/22

CHECKED PSC 2/3/22

APPROVED PSC 2/8/22

DO NOT SCALE DRAWING

DESCRIPTION

ITQ MODULE

CERTIFIED BLE MODULE

PART NUMBER G-060017

SCALE 4:1 CAD FILE: G-060017 SHEET 1 OF 3

8 7 6 5 4 3 2 1

INTEGRATION INSTRUCTIONS

SINCE THIS MODULE AND ITS ASSOCIATED SET OF APPROVED ANTENNAS HAVE BEEN CERTIFIED AS A LIMITED MODULAR RADIO, THIS ALLOWS INTEGRATION OF THIS MODULE INTO GAUTHIER BIOMEDICAL (OEM) END-PRODUCTS ONLY, WITHOUT THE REQUIREMENT OF RE-CERTIFYING THE RADIO MODULE WITH THE FCC IF THE INTEGRATION INSTRUCTIONS BELOW ARE FOLLOWED.

IF THESE CONDITIONS CANNOT BE MET, THEN THE FCC AUTHORIZATION IS NO LONGER CONSIDERED VALID AND THE FCC ID CANNOT BE USED ON THE FINAL PRODUCT. IN THESE CIRCUMSTANCES, THE HOST PRODUCT OEM IS RESPONSIBLE FOR RE-EVALUATING THE END PRODUCT (INCLUDING THE TRANSMITTER) AND OBTAINING A SEPARATE FCC AUTHORIZATION.

OPERATIONAL USE CONDITIONS

THIS TRANSMITTER MUST NOT BE CO-LOCATED OR OPERATING IN CONJUNCTION WITH ANY OTHER ANTENNA OR TRANSMITTER.

THIS TRANSMITTER MUST BE LIMITED TO USE WITH ANTENNAS LISTED ON PAGE 1 OR EXCEPTIONS NOTED ON PAGE 1.

END PRODUCT LABELING

THE FINAL END PRODUCT MUST BE LABELED IN A VISIBLE AREA WITH THE FOLLOWING:
"Contains FCC ID: 2A3CW001".

END PRODUCT USER MANUAL

DO NOT PROVIDE INFORMATION TO END USER REGARDING HOW TO INSTALL OR REMOVE THIS RF MODULE IN THE USER MANUAL OF THE END PRODUCT.

THE END PRODUCT USER MANUAL SHALL INCLUDE ALL REQUIRED REGULATORY INFORMATION / WARNINGS LISTED IN PAGE 3. FCC INTERFERENCE STATEMENT CAN BE EXCLUDED IF END PRODUCT IS A SPECIALIZED MEDICAL DEVICE AND EXEMPTED FROM FCC RULES ON UNINTENTIONAL RADIATORS. REFERENCE FCC PART 15.103(e) FOR FURTHER INFORMATION ON THIS TOPIC.

TRACE ANTENNA CONSIDERATIONS

TRACE DESIGN, PARTS LIST, ANTENNA, CONNECTORS, ISOLATION REQUIREMENTS, TESTS FOR DESIGN VERIFICATION, AND PRODUCTION TEST PROCEDURES FOR ENSURING COMPLIANCE ARE CONTROLLED BY LAIRD CONNECTIVITY UNDER SABLE-X-R2 MODEL NAME, FILED WITH FCC UNDER FCC ID TFB-1005.

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END PRODUCT VERIFICATION

THE END-PRODUCT OEM IS RESPONSIBLE FOR THE UNINTENTIONAL CONDUCTED AND RADIATED EMISSIONS AND MUST VERIFY THAT THE INTEGRATED PRODUCT IS COMPLIANT WITH THE RULES ASSOCIATED WITH UNINTENTIONAL RADIATORS. NOTE FOR SPECIALIZED MEDICAL DEVICES, PRODUCTS ARE EXEMPTED FROM FCC RULES ON UNINTENTIONAL RADIATORS. REFERENCE FCC PART 15.103(e) FOR FURTHER INFORMATION ON THIS TOPIC.

PERFORM VERIFICATION TESTING ON HOST PRODUCT WITH INTEGRATED TRANSMITTER AS NECESSARY BASED ON FCC GUIDANCE DOCUMENT KDB 996369 D04. ANY RECORDS OR RATIONALE FOR VERIFICATION ACTIVITIES ALONG WITH EVIDENCE OF FOLLOWING INTEGRATION INSTRUCTIONS TO BE DOCUMENTED IN THE END PRODUCT TECHNICAL FILE.

INFORMATION ON TEST MODES

RECOMMEND CONNECTION WITH COMPUTER RUNNING SMARTRF STUDIO 7 VERSION 2.12.0 FROM TEXAS INSTRUMENTS TO MODULE IN END PRODUCT WITH TI CC2640R2F LAUNCHPAD HARDWARE FROM TEXAS INSTRUMENTS AS INBETWEEN CONNECTION. THIS ALLOWS DYNAMIC CONFIGURATION OF MODULE INTO TX MODE, RX MODE, CHANNEL SELECTION, MODULATION SETTINGS, ETC AS NECESSARY FOR HOST INTEGRATION TESTING.

IF ADDITIONAL EQUIPMENT ABOVE IS CAUSING EXCESSIVE SPURIOUS EMISSIONS, DIRECT PROGRAMMING OF MODULE WITH HCI EXTENSION COMMANDS FROM TEXAS INSTRUMENTS CAN CONFIGURE MODULE INTO VARIOUS TEST MODES IN A STAND ALONE CONFIGURATION.

RF EXPOSURE CONSIDERATIONS

THIS PORTABLE TRANSMITTER WITH ITS ANTENNA COMPLIES WITH FCC RF EXPOSURE LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 X ±0.020 ±1°
XX ±0.10
XXX ±0.05
XXXX ±0.0005

**GAUTHIER**
B I O M E D I C A L

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MATERIAL	SEE BOM	APPROVALS	DATE	DESCRIPTION
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HEAT TREAT	NA	CHECKED	1/31/22	ITQ MODULE
FINISH	NA	APPROVED	2/3/22	CERTIFIED BLE MODULE
PASSIVATE	NA	DO NOT SCALE DRAWING	2/8/22	

INSPECTION SYMBOLS



CRITICAL



AQL

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FCC COMPLIANCE INFORMATION

Contains FCC ID: 2A3CW001

This device complies with Part 15 of the FCC Rules. 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 not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT

The product complies with the US portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. Further RF exposure reduction can be achieved if the product is kept as far as possible from the user body or set to lower output power if such function is available

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INSPECTION SYMBOLS

CRITICAL

AQL

MATERIAL		APPROVALS		DESCRIPTION	
SEE BOM	DATE	DRAWN	DATE	ITQ MODULE	
HEAT TREAT	NA	CHECKED	1/31/22	CERTIFIED BLE MODULE	
FINISH	NA	APPROVED	2/3/22		
PASSIVATE	NA	DO NOT SCALE DRAWING	2/8/22		
		ANODIZE	NA		

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