

Application for Equipment Authorisation by BABT operating as a US TCB for Licensed and Unlicensed Radio Devices and Unintentional Radiators



Introduction

This application form should normally be used for applications for evaluation and filing by BABT as a TCB. It replaces FCC form 731 where applications are made through BABT. The form consists of a number of individual sections, which should be completed as appropriate. Note: BABT will accept applications using FCC Form 731 but will still require section F of this form to be completed

Section A: Main Contact Details (FCC Items, 1, 2 and 4)

A. 1 Main Contact Detail

Please write here the company name, and contact details to be used in the progression of the application.

Name of the main contact:

(This person must be within the certificate holders organisational structure and must not be a consultant)

Title: VP Engineering
First Name: Robert Last Name: Boesel
Job Title and/or Department Reference:
Company Name: On-Ramp Wireless, Inc.
Address: 10920 Via Frontera, Suite 200, San Diego, CA
Postcode/Zip Code: 92127 Country: USA
Telephone Number: 858-312-8361 Fax Number: 858-592-6009
Email Address: rob.boesel@onrampwireless.com

A. 2 Other Contact Information

Please complete this section as appropriate. Normally all contact is directed through the applicant. If you wish to involve others for particular roles please indicate below, and provide supporting information.

Where the Main contact is not the grantee or you wish an agent to be involved with this application please check/tick this box and supply an agents letter on company headed signed by the Grantee appointing them. <https://gulfoss2.fcc.gov/oetcf/eas/reports/GranteeSearch.cfm> ☐

Where you wish to name a different person to the grantee as either technical contact or non-technical contact please check/tick this box and the contact details with the application ☐

Note: This may be either a letter or part of an e-mail.

Section B: Your Grant Requirements

B. 1 Type of Application

Original ☒ Class 2 Permissive Change ☐
Change of FCC ID ☐ Other (provide details in a letter) ☐
Note: Class 1 Permissive Changes are made under the manufacturers responsibility and should not be submitted to BABT

B. 2 Grant Type

Please complete these as appropriate.

Radio Modules

Is the equipment in this application a radio module intended for use in other products Yes ☒ No ☐
If yes is the module limited to use with a host (or hosts) listed on the grant Yes ☐ No ☒

Where you only intend using listed host/hosts please list the hosts (with their FCC ids where appropriate)

Host:

Note: Please indicate where an application for a grant for a listed host is in progress or has not yet been submitted

Please indicate modular type applied for **Single Modular**

Portable Equipment subject to Parts 22E, 24H or Part 90S may optionally be assessed for Hearing Aid compatibility. Do you wish BABT to assess the RF Emissions for interference to Hearing Aids? Yes ☐ No ☒

Do you wish BABT to assess the T-Coil signal for compatibility for Hearing Aids? Yes ☐ No ☒

If your equipment has any special features to support the Hearing Aid compatibility please provide brief details:

Details:

Confidentiality: Do you request any portion of the data contained in this application to to be treated with confidentiality pursuant to 47 CFR 0.459 of the FCC rules? Yes ☒ No ☐

Deferred Grant Do you wish BABT to defer uploading the grant until a specified date pursuant to 47 CFR 0.459 of the FCC rules? Yes ☐ No ☒

Please indicate which ongoing surveillance option you wish to use:

Manufacture in a BABT Certified Manufacturing location (e.g. in a location with a PQC, FQA, or ISO 9001 certificate from BABT). Where this option is taken please indicate the Location and Certificate number of your manufacturing location ☐

Year	Manufacturing Location	Certificate Number
2019	USA	123456789
2020	USA	987654321
2021	USA	456789123
2022	USA	321654987
2023	USA	789123456
2024	USA	654987321
2025	USA	123456789
2026	USA	987654321
2027	USA	456789123
2028	USA	321654987
2029	USA	789123456
2030	USA	654987321
2031	USA	123456789
2032	USA	987654321
2033	USA	456789123
2034	USA	321654987
2035	USA	789123456
2036	USA	654987321
2037	USA	123456789
2038	USA	987654321
2039	USA	456789123
2040	USA	321654987
2041	USA	789123456
2042	USA	654987321
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2107	USA	789123456
2108	USA	654987321
2109	USA	123456789
2110	USA	987654321
2111	USA	456789123
2112	USA	321654987
2113	USA	789123456
2114	USA	654987321
2115	USA	123456789
2116	USA	987654321
2117	USA	456789123
2118	USA	321654987
2119	USA	789123456
2120	USA	654987321
2121	USA	123456789
2122	USA	987654321</

☐ Under the TCB market surveillance route

Please enter the Product name(s), and model(s) of each product.

Product(s) Name	Model(s)
Falcon	TRN-2012

Please give a brief summary of the Product for the Grant line followed by details of the purpose and type of the product. This is intended to assist in correlating the product to the requested certification.

The TRN-2012 Radio Communication module is designed specifically to be installed in an electric meter to provide half-duplex communication to the back office. The module communicates with the meters through a UART interface. The module uses two integral diversity antennas to transmit or receive information wirelessly to one or more remote Access Points.

Please complete one of the following relating to FRN (10-digit unique identifying FCC Registration Number):

The application is made under the following FRN 0019103472
 I have no FRN and hereby authorise BABT to apply for one on my behalf ☐

If **you have a grantee code** please detail the FCC ID to be used for this grant:

Grantee Code (3 chars) XTE	Equipment Product Code (up to 14 characters, show zeros as Ø, no spaces) -TRN-2012
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If you do not have a grantee code and wish BABT to obtain one please complete the following:

The following is my preferred FCC id:

(Please check on [FCC website](#) to see if already used)

The Equipment Product code I intend to use with this product is as follows:
(up to 14 characters, show zeros as 0, no spaces)

Note: BABT will not be able to complete the evaluation without evidence of a label showing a valid FCC id.

C. 5 Product Installation Category

Please indicate the type of installation intended for your product. (Select only one)

Fixed Intentional Radiator ☐ Mobile Intentional radiator ☒ Portable Intentional Radiator ☐ Unintentional Radiator ☐

Note for Unintentional Radiators Section E is not required to be completed but the Microprocessor model number (where appropriate) will be required for the grant.

C. 6 Number of Radiators

Please identify all the transmitters included in the product subject to this application

(where a transmitter can use different frequencies under the same equipment code list only once [e.g. GSM transmitter able to use 850 and 1900 kHz under Parts 22 and 24 respectively]; for unintentional radiators state "none")

Type of Transmitter	FCC Equipment Authorisation Code	List other Transmitters which can transmit at the same time	If this is a radio module included with this product under another FCC id list that FCC id.
DSSS	DTS	None	XTE-ULPU100

C. 7 Equipment Features

Please indicate if your equipment has any of the following features: (select each relevant)

Microphone ☐ Speaker ☐ Headset Port ☐ Wire-base Computer Interface Port (e.g. USB) ☐

C. 8 Ancillary Equipment

Please list all ancillary equipment to be considered and included in the equipment authorisation. (e.g. Headsets, belt clips, lanyards, alternative power sources etc)

C. 9 Sub-equipped/De-Configured Product

Where your product is additionally available in an sub-equipped or de-configured version which is not electrically identical (e.g. The fully configured device has two transmitters but the product is also sold with only the main transmitter) then an additional equipment Authorisation (Grant) with a different FCC id will be required *[Refer to Part 2 clause 2.924]*.

Where you wish BABT to progress such applications in parallel please complete the following:

Note: BABT will require a separate fee to progress each different FCC id

Model Number	Differences to the Main Application	FCC ID for this Model

Section D: Transmitter Details

Please complete for each separate Transmitter to be included under this FCC ID.

Radio Type

Please describe the type and intended use of this radio: Spread Spectrum/Digital Device (2400–2483.5 MHz). See section C.2 of this application for product description and use.

D.1 Equipment Authorisation Coding (FCC Item 10)

Please identify the [equipmentcode](#) for each radio (eg. PCE,DTS,DSS,NII etc): DTS

D.2 FCC Rule Part(s) (FCC Item 10)

Please list the FCC 47 [Ruleparts](#) under which the Equipment will be operated (eg.22H,24E,15C): 15C

D.3 Equipment Specifications (FCC Item 12)

Please provide a separate entry for each type of coding/use of the specific transmitting device (eg. a dual band GSM radio capable of GPRS may require 4 entries (850MHz GSM; 850MHz EGPRS; 1900MHz GSM; 1900MHz EGPRS)

Frequency Range	Operating Mode	Rated RF Power Output (W)	Frequency Tolerance %, Hz, ppm	Emission Designator
2402 - 2475.63	DSSS Fixed Duty Cycle	0.0925		X1D

Note: For Receiver only Applications, complete appropriate sections (e.g. Frequency range and modes)

D.4 RF Exposure Information

For transmitters please indicate which of the following RF Evaluation is required:

- ☐ Head SAR
 ☐ SAR Exempt
☐ Body SAR
 ☒ MPE
 ☐ RF Exposure at Licensing

Section E: Payment Details

Work is carried out on receipt of either payment in advance or a valid purchase order number. Clients applying directly to BABT (i.e. not through any other TUV Group office), who do not currently have approved credit facilities with either BABT or TUV Product Service UK must include a completed Credit Details Form with the application. Alternatively payment in advance is accepted. The appropriate forms may be downloaded from <http://www.babt.com>

Where you wish the invoice to be sent to a different person to the main contact please tick the ☐ box and provide the full details in supporting information

Where you wish to pay in advance please either provide details of your credit card or indicate you wish to select this type of payment and contact customer.services@babt.com to arrange for the payment. We regret that BABT do not accept Amex cards.

Where you select to use a purchase order please provide your company's Purchase order number.

Section F: Agreement**The applicant named in A1 must complete this section:**

I (We) hereby certify that neither I (We) nor any party to this application is subject to a denial of U.S. Federal benefits, which include FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, U.S.C. 862 because of conviction for possession or distribution of controlled substance. *Refer to Part 1.2002(b) for the definition of "party".*

and

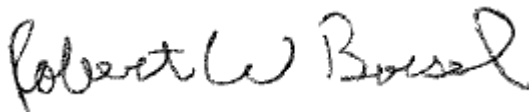
I (We) hereby apply for a Grant for Equipment Authorisation issued by and agree to conform to the BABT Certification Regulations

and

I (We) agree to provide a sample of this product for market surveillance purposes on request from either BABT or the FCC

Signed for on behalf of the applicant

Authorised Signatory:



Title: VP Engineering
First Name: Robert
Last Name: Boesel
Company Name: On-Ramp Wireless, Inc.
Date: 4/12/2013

All work is undertaken under BABT's standard terms & conditions and the specific conditions listed on this form. A copy of BABT's standard terms & conditions can be found on our website.

This application form must be accompanied by the required information as detailed in BABT 735 'A Guide to applying for US Equipment Authorisation for Intentional and Unintentional radiators through BABT as a TCB'.

Please return your application to

BABT
Forsyth House
Churchfield Road
Walton-on-Thames
Surrey
KT12 2TD
UK
Tel: +44 (0) 1932 251200; Fax: +44 (0)1932 251201
E-Mail: customer.services@babt.com
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