
**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 and Annex I of this form to be completed.

Section A. Main Contact details (FCC Items 1, 2, and 4)

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

Name of the main contact: Marco Belli.....
(This person must be within the organisational structure of the applying company and may not be a consultant)

Job Title and/or Department Reference: Manager – Symbol Regulatory Compliance

Company Name: Symbol Technologies Inc

Address: One Symbol Plaza.....

Holtzville

New York.....

.....

Postcode/Zip Code: 11742 Country:USA.....

Prime Telephone Number: +44 01189457313.....

Fax Number: +44 01189457274

e-mail Address: marco.belli@uk.symbol.com

Is this person the named Grantee contact ?

☐

NO

If “NO” do you wish yourself named as the Technical Contact ?

YES

☐

If “NO” to the Grantee contact do you wish yourself named as the Non-Technical Contact ?

YES

☐

Note: If you state “YES” to either of the above two questions you do not need to complete the appropriate sections overleaf

Section B. Details of other contacts

Please complete this section as appropriate. Where details are omitted the applicant is assumed to perform that function

B.1.1 Technical Contact (FCC Item 6)

Name:

Job Title and/or Department Reference:

Address:

.....

.....

Telephone Number: Fax Number:

e-mail Address:

B.1.2 Non-Technical Contact (FCC Item 7)

Name:

Job Title and/or Department Reference:

Address:

.....

.....

Telephone Number: Fax Number:

e-mail Address:

B.1.3 Certificate Company Name and address (FCC Item 5)

Where you wish the BABT Certificate and TCB grant to be sent to a contact, or address which differs from the applicant please complete this section

Name:

Job Title and/or Department Reference:

Address:

.....

.....

Telephone Number: Fax Number:

e-mail Address:

B.1.4 Invoicing Duty

If the invoice should be sent to someone at this address please provide

Name:

Job Title and/or Department Reference:

Address:

.....

.....

Telephone Number: Fax Number:

e-mail Address:

B.1.5 Consultant

Where you wish a consultant or other person outside your organisational structure to be involved with the application please provide the following details. Where you complete this section you should include an appropriate letter within Exhibit 13

Name of Consultant: Phil Dolling

Company:

Address:

.....

.....

Telephone Number: 01329 443502 Fax Number:

e-mail Address: pdolling@tuvps.co.uk

Section C. Your Grant Requirements

C.1 Type of Application

Please indicate the type of application you require by marking the appropriate box:

Original ☐

Class 2 Permissive Change ☒

Other ☐ Details:

Note: Class 1 Permissive Changes are made under the manufacturers responsibility and should not be submitted to BABT

C.2 Grant Type

Please complete these as appropriate.

C.2.1 Radio Modules

Is the equipment in this application a radio module intended for use in other products

	No
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If yes is the module intended only for use with a host (or hosts) listed on the grant

Yes	No
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Where you only intend using listed host/hosts please list the hosts (with their FCC ids where appropriate)

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

C.3 Additional information:(FCC Items 8 and 9)

<p align="center">Confidentiality</p> <p>Do you request any portion of the data contained in this application to be treated with confidentiality pursuant to 47 CFR 0.459 of the FCC rules <i>(circle or indicate as applicable)</i></p> <p><i>Note: If selected you must include a covering request letter with your application</i></p>	Yes	
<p align="center">Deferred Grant</p> <p>If you wish BABT to defer uploading the grant until a specified date (pursuant to 47 CFR 0.459 of the FCC rules) <i>(please circle or indicate as applicable)</i></p> <p>If “YES” please indicate the earliest date you wish the grant to be uploaded: :.....</p>		No

C.4 Ongoing Surveillance

Please indicate which ongoing surveillance option you wish to use:

<p>Manufacture in a BABT Certified Manufacturing location (e.g. in a location with a PQC, FQA, or ISO 9000 certificate from BABT)</p> <p>Where this option is taken please indicate the Location and Certificate number of your manufacturing location</p> <p>Location: Cert No.:</p>	<input type="checkbox"/>
<p>Under the TCB market surveillance route</p>	<input checked="" type="checkbox"/>

Section D. Product Details

D.1 Product name and details

Please give the product name(s) which are the subject of this application. Give the name and, if applicable the model or catalogue number of each product.

Symbol MC9062 Mobile Computer

Type number: MC9062.....

.....

D.2 Brief Description of this product (FCC Item 10)

Please give brief details of the purpose and type of the product. This is intended to assist in correlating the requested certification with the standards requested and degree of testing needed.

The Symbol MC9062 Mobile Computer offers Tri-Band GSM/GPRS 900/1800/1900, 2.4GHz 802.11b Wireless LAN and Bluetooth connectivity.....

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.....

D.3 FRN (FCC Main form)

Please complete one of the following:

The application is made under the following FRN	0005876149.....
I have no FRN and hereby authorise BABT to apply for one on my behalf	Signed:

D.4 FCC Id [Grantee Code (FCC Main form) & Equipment Product Code(FCC Item 3)]

Where **you have a grantee code** please detail the FCC id to be used for this grant

Grantee Code (3 chars)	Equipment product code(up to 14 characters, show zeros as Ø, no spaces)
H9P	MC9062B

Where **you do not have a grantee code** and wish BABT to obtain one please complete the following

I have no current Grantee code and hereby authorise BABT to apply for one on my behalf	Signed:
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 Ø, no spaces)	

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

D.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.

D.6 Number of Radiators

Please identify all the transmitters to be considered with 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 Radio	FCC Equipment Authorisation Code	Where more than one radio, List other Radios 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.
MTM with embedded 2.4GHz RLAN	DSS	Bluetooth, GPRS/GSM	H9P2164436
Bluetooth module	DSS	2.4GHz RLAN, GPRS/GSM	H9P2164381
1900 MHz GPRS/GSM module	PCT	2.4GHz RLAN, Bluetooth	QIPMC45

Note: where more than one radio transmitter is present BABT will confirm with you whether to progress this as a composite device using the same FCC id, or seek separate FCC ids for each radiator .

D.7 Ancillary Equipment

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

(Note: if you have a headset port ,microphone, or speaker please also declare them)

Headset – manufactured by VXI Corporation. Type: VXI 61-SYB. Part number:50-11300-050

Holster with belt-clip. Part number: 11-65211-01

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D.8 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

Model number	Differences to the main application	FCC id for this model

Section E. Transmitter Details

Please complete this section for the highest power output transmitter. Where other radiators are intended to be listed under the same FCC id then please complete a copy of Section G for each additional transmitter type.

E.1 Radio Type

Please describe the type and intended use of this radio:

Siemens MC45 GPRS/GSM Tri-band radio module

E.2 Equipment Authorisation Coding (FCC Item 10)

Please identify the appropriate equipment code for this radio: PCT

E.3 FCC Rules (FCC Item 10)

Please list the FCC 47 Rule parts under which the Equipment will be operated:

Part 24

E.4 Equipment Specifications(FCC Item 12)

Please provide a separate entry for each type of coding/use of the specific transmitting device (e.g. A Dual band GSM radio capable of GPRS may require 4 entries (850 kHz GSM; 850 kHz GPRS; 1900 GSM; 1900 GPRS)

Frequency Range	Operating Mode	Rated RF Power output in watts	Frequency tolerance %, Hz ppm	Emission designator (see FCC 47 CFR 2.201 and 2.202)
TX 1850-1910 MHz RX 1930-1990 MHz	1900GSM	1 W	-	GXW

Section F. Summary and Agreement

This section must be completed by the applicant named in Section A1

I hereby certify that neither I nor any party to this application is subject to a denial of U.S. Federal benefits, that 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 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

I have completed this application with the following:

one copy of sections A through E, and 2 copies of section G

one copy of Annex I with accompanying data. (delete if not applicable)

Signed for on behalf of the applicant
Authorised signatory



Name in CAPITALS

MARCO BELLI.....

Date

5 May 2004

Please send your application to

BABT, Claremont House, 34 Molesey Road, Hersham, Walton-on-Thames, Surrey, KT12 4RQ, UK.

National Tel: 01932 251200

Fax: 01932 251201

International Tel +44 1932 251200

Fax: +44 1932 251201

Web Address: <http://www.babt.com>

Email: babt@babt.com

Section G. Additional Transmitters Details

Please complete a copy of this section for the each additional transmitter to be included within the application. .

G.1 Radio Type

Please describe the type and intended use of this radio:

Main Terminal Module with embedded RLAN radio

G.2 Equipment Authorisation Coding (FCC Item 10)

Please identify the appropriate equipment code for this radio: DSS

G.3 FCC Rules (FCC Item 10)

Please list the FCC 47 Rule parts under which the Equipment will be operated:

Part 15C

G.4 Equipment Specifications(FCC Item 12)

Please provide a separate entry for each type of coding/use of the specific transmitting device
(e.g. A Dual band GSM radio capable of GPRS may require 4 entries (850 kHz GSM; 850 kHz GPRS; 1900 GSM; 1900 GPRS)

Frequency Range	Operating Mode	Rated RF Power output in watts	Frequency tolerance %, Hz ppm	Emission designator (see FCC 47 CFR 2.201 and 2.202)
Tx/Rx 2400-2483.5MHz	RLAN	100mW	-	11M0F1D

Section H. Additional Transmitters Details

Please complete a copy of this section for the each additional transmitter to be included within the application. .

H.1 Radio Type

Please describe the type and intended use of this radio:

Bluetooth module.....

H.2 Equipment Authorisation Coding (FCC Item 10)

Please identify the appropriate equipment code for this radio: DSS

H.3 FCC Rules (FCC Item 10)

Please list the FCC 47 Rule parts under which the Equipment will be operated:

Part 15C

H.4 Equipment Specifications(FCC Item 12)

Please provide a separate entry for each type of coding/use of the specific transmitting device
(e.g. A Dual band GSM radio capable of GPRS may require 4 entries (850 kHz GSM; 850 kHz GPRS; 1900 GSM; 1900 GPRS)

Frequency Range	Operating Mode	Rated RF Power output in watts	Frequency tolerance %, Hz ppm	Emission designator (see FCC 47 CFR 2.201 and 2.202)
Tx/Rx 2400-2483.5MHz	RLAN	100mW	-	1M00F1D

BABT Use	File Reference:
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Annex I Information to accompany the application

Submissions from a TCB to the FCC are required to be electronic and in a standard structure. While BABT will accept applications with accompanying data in paper or in unstructured formats BABT may charge the applicant a fee appropriate to the effort involved in correctly formatting the required data.

The application supporting documentation should normally be submitted electronically as Adobe PDF, MS-Word, or jpg files (as applicable) in the required directory/folder structure.

The following directories and content is required (as appropriate to your particular application).

Please use the remaining sections as a checklist for the application and include it with the application to assist BABT in verifying all the required data has been supplied.

Note: Where your application involves Transmitters with different Equipment Authorisation Codes a copy of this checklist should be completed for each separate EAC used.

I.1 Exhibit 1: Label

Refer Part 2: 2.803; 2.925; 2.926; 2.954; 2.1033(b) (7) and (c)(11);
Part 15.19; 15.25; 15.121(f)(1)(2); 15.233(h); 15.247; 15.249; 15.311; 15.407(f)[ET Docket 98-76];

Mark if Enclosed	Aspect/item included	BABT Use
	Sample Label/ or facsimile	
	Able to be permanently affixed	
	Readily visible to purchaser { normally on exterior of product}	
	FCC ID unique	
	Product Code maximum of 14 characters	
	Product code Arabic numerals, capital letters or combination, may include dash or hyphen (-)	
	Photo or drawing of location on equipment showing information to be placed thereon	
	Appropriate statement on label or in required alternative location	
	Device too small (smaller than a mans palm) or to be implanted in body.	
	Compliance statement included in user manual	
	Included in software provided with device	
	No user manual	
	Evidence that the info will be included in the car manual	
	Contract or letter from car manufacturer confirming this	
	New car user manual	

I.2 Exhibit 2: Attestation Statement

Refer part 2: 2.911 (c), (d), (e)

Mark if Enclosed	Aspect/item included	BABT Use
X	Attestation Statement itself	
	Including Company name and address	
	Including FCC ID listed	
	Including Equipment name and model number	
	Including FCC Rule Parts the equipment is to be operated under	
	Including Justification of required testing not done	
	Including Indication of passed	
	Including Signature of the person who performed the tests	

I.3 Exhibit 3: External Photos

Mark if Enclosed	Aspect/item included	BABT Use
Parts 15 and 18	Part 2: 2.1033(b)(7)	
	External Photos themselves	
	showing exterior appearance, construction	
	Component placement on chassis	
	Antenna(s) used with device and placement of antenna(s)	
	Controls available to user	
Other than Parts 15 and 18	Part 2: 2.1033(c)(12)	
	Construction and layout including meters (if any)	
	Labels for controls	
	Sufficient views of internal construction to define component placement and chassis assembly	

I.4 Exhibit 4: Block Diagram

Refer Part 2: 2.911(b); 2.1033(b)(5)

Mark if Enclosed	Aspect/item included	BABT Use
	Block Diagram itself	
	showing Frequency of all oscillators	
	Showing signal path and frequency at each path	
	Tuning range(s) and intermediate frequencies at each block	

I.5 Exhibit 5: Schematics

Refer Part 2: 2.1033(b)(5) + (c)(10)

Mark if Enclosed	Aspect/item included	BABT Use
	Schematic diagram(s)	
	Description of all circuitry and devices provided for: determining/stabilising frequency; suppression of spurious radiation; limiting modulation; and limiting power	

I.6 Exhibit 6: Technical Report

Refer Part 2: 2.911(b)+(d)+(e); 2.946; 2.947; 2.948; 2.1033(b)+(c)

Mark if Enclosed	Aspect/item included	BABT Use
X	Test Report(s) <i>Please state the report number/identities</i> <i>OR611528-04, OR611528-05</i>	
Each test report includes		
	FCC ID	
	Name and address of manufacturer and applicant	
	Device Name and model number	
	Dated Measurements showing compliance with pertinent procedures	
	Location of measurements	
	Test Data signed by tester or person who supervised the tests	
	Standards identified	
	Tested to applicable and FCC accepted standards	
	List of test equipment and calibration dates	
	Statement of power source for EUT (AC/DC Voltage AC frequency)	
	Measurement facilities listed	
	Calculations showing how results were converted	
	Descriptions of peripherals or accessories connected or installed during test	

I.6 Exhibit 6: Technical Report		
Refer Part 2: 2.911(b)+(d)+(e); 2.946; 2.947; 2.948; 2.1033(b)+(c)		
Mark if Enclosed	Aspect/item included	BABT Use
Applications for Part 15		
	Direct sequence spread spectrum transmitters , must show compliance with 15.247(e)	
	Frequency hopping transmitters must have a description of compliance of the associated receiver or receivers with 15.247(a)(1)	
	Scanning receivers must state the methods used to comply with the design requirements of 15.121(a) or the marketing requirements of 15.121(b)	
	Certification of transmitters operating within the 59.0 to 64.0 GHz band must demonstrate compliance with the provisions of 15.255(g) + (I)	
Other Parts		
	AM broadcast stereophonic exciter-generator intended for interfacing with existing certified , or formerly type accepted or notified transmitters must include measurements made on a complete stereophonic transmitter. The instruction book must include complete specifications and circuit requirements. For interconnecting to existing transmitters. The instruction book must also provide a full description of the equipment and measurement procedures to monitor modulation and to verify that the combination of stereophonic exciter-generator and transmitter meets the emission limitation of 73.44	
	Range of operating power values or specific operating power levels ; and description of any means provided for variation of operating power	
	Maximum power rating	
	DC voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range	
	For equipment employing digital modulation techniques : a) Detailed description of the modulation system to be used, including the response characteristics(frequency, phase, and amplitude) of any filters provided. And b) Description of the modulating wavetrain for the maximum rated conditions under which the equipment will be operated	

I.7 Exhibit 7: Test Set-up Photographs

Refer Part 2: 2.911(b)

Mark if Enclosed	Aspect/item included	BABT Use
X	Diagrams/photos of set-ups	

I.8 Exhibit 8: User's Manual

Refer Part 2: 2.1033(b)(3) ; Part 15: 15.21; 15.105

Mark if Enclosed	Aspect/item included	BABT Use
	Installation and operating instructions to be furnished to the user (<i>may be in draft</i>)	
	For Intentional and unintentional radiators the manual shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment	
	Class A/B required statement (ref 15.105)	
	Where FCC Id and/or SAR data are included they must be correct	
	Description of any accessories and/or batteries	
	No User Manual (car alarm marketed by car dealer) evidence of information in a car manual	

I.9 Exhibit 9: Internal Photos

Refer Part 2: 2.1033(b)(7) + (c)(12)

Mark if Enclosed	Aspect/item included	BABT Use
	Photographs	
	Views of internal construction to define components placement and chassis assembly	
	Front and back of PC boards showing values of components and traces	
	View with any cans removed	

I.10 Exhibit 10: Tune up/Parts List

Required for equipment operating under parts other than 15 and 18. Refer Part 2: 2.1033(c)(9)

Mark if Enclosed	Aspect/item included	BABT Use
	Tune up procedure over the power range or at specific operating power levels	

I.11 Exhibit 11: RF Exposure

Refer Part 1 1.1307; 1.1310; Part 2: 12.1091; 2.1093

Mark if Enclosed	Aspect/item included	BABT Use
Mobile devices and fixed devices not subject to site licensing		
	Statement of compliance to SAR requirements	
	On company headed paper	
	Signed by Applicant or Officer of Company	
	Copy of Justification or calculations	
Portable devices		
X	SAR Test Report meeting general requirements of Exhibit 6	
	Completed BABT 745 Checklist	

I.12 Exhibit 12: Operating Description

Refer Part 2: 2.1033(b)(4),

Mark if Enclosed	Aspect/item included	BABT Use
	Description of circuit functions of the device	
	Statement describing how the device operates including description of the ground system and antenna (if any) used with the device	

I.13 Exhibit 13: Cover Letters**I.13.1 Agent letter** [Refer Part 2 2.911(c) (e)]

Mark if Enclosed	Aspect/item included	BABT Use
X	Agent Letter	
	Signature by authorised person	

I.13.2 Confidentiality Letter [Refer Part 0: 0.457(d); 0.459, 0.461]

Mark if Enclosed	Aspect/item included	BABT Use
	Confidentiality applied for within application	
	Confidentiality letter	
	Includes Trade secrets and commercial or financial information obtained from any person and privileged or confidential –categories of material not routinely available for public inspection	
	Addressed to TCB	
	On Company letterhead	
	Portions of applications for equipment certification of scanning receivers and related material. Includes schematic diagrams, technical narratives describing equipment operation, and relevant data	
	Indication of specific information	
	Explanation of the degree to which the information is commercial or financial or contains a trade secret or is privileged	
	How disclosure would result in substantial competitive harm	
	Signature by authorised person	

I.14 FCC Filing Information Checklists

BABT USE only These tables are for information and for use by BABT to check all required FCC filing information is present in or with the application

I.14.1 Electronic FCC 731 Form Header info

Description	Reference	Check	Description	Reference	Check
Grantee Code	Section D.4		Name of Test Firm	Test Report	
Equipment Code	Section D6/E2/G2		Test Firm State	<blank if non-US>	
BABT FRN	Required		Test Firm Country	Test Report	
Client FRN	Section D.3		Scope	Refer D.6/E2/G2 and BABT 735 Annex A	

I.14.2 Individual items

Item No	Reference	Description	Main Equipment Code	Other Code(s)	Comments
1	Section A	Applicant Company Name			
2	Section A	Applicant Company Address			
3	Section D4	FCC ID			
4	Section A	Contact name			
5	Section B.1.3	Alternate address for Grant	N/a	N/a	TCBs cannot amend this; but BABT Cert will use this Address and mail grant copy to this address
6	Section B.1.1	Technical Contact			
7	Section B.1.2	Non-Technical Contact			
8	Section C.3	Confidentiality requested			
9	Section C.3	Defer Grant	N/a	N/a	TCBs cannot request this; but BABT will not upload grant until after the requested date
10	Section D.6/E2/G2	Equipment Code	E.2 :	G.2	
11	Section C.1	Application Type			
12	Section D.6	Composite or associated equipment			
13	See Report	Test Firm			
14	Derive from Report, FCC site and User guide	Text required on grant			
15	Section F	Anti-Drug			
16	Section F	Applicant/Consultant signature			

I.14.3 For Grant

	Section E4/G47	Equipment Specs	E.4:	G.4:
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BABT Use

Documentation Checked by	Name	Date
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