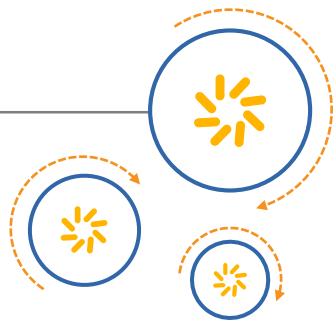




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Qualcomm Technologies, Inc.



# **QM8626 Modular Certification**

## **OEM Integrator Instructions**

80-KA570-12 Rev. B

August 12, 2015

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## Revision history

Revision	Date	Description
A	July 2015	Initial release
B	August 2015	Added FCC review comments

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# 1 Introduction

---

This document describes the steps that the OEM integrator must follow when designing and manufacturing a system utilizing a Qualcomm Technologies, Inc. (QTI) QM8626 radio module (the “Module”).

Failure to follow the instructions in this document may invalidate the FCC certification and authorization of the Module for use in the U.S. and in other countries.

The QM8626 modular certifications described in this document apply only to radio conformance for the Module. The OEM integrator is responsible for all system-level electromagnetic interference/electromagnetic compatibility (EMI/EMC) and product safety testing and certifications that apply to the host system in the U.S. and other countries where the system will be marketed or sold.

## 2 Applicable Module

---

- Part Number: QM8626
- FCC ID: J9CQM8626
- IC: 2723A-QM8626

# 3 Available Global Modular Approvals from Qualcomm Technologies, Inc.

---

Module certification is limited to those countries for which Qualcomm Technologies, Inc. (QTI) has obtained radio modular approvals. The release and distribution of QTI regulatory documents shall follow the QTI policy through the QTI system. Customers who receive regulatory certification documents in the QTI system are subject to the terms of their Non-Disclosure Agreement (NDA) with QTI (Figure 3-1).

## Welcome to CreatePoint

Logging in to this website means that you agree to be bound by all of the terms and conditions set forth below. Access to this website is both login and password protected and limited to a single assigned password holder who is currently a registered and authorized user of Qualcomm Technologies, Inc. ("Qualcomm Technologies"), Qualcomm Atheros, Inc. ("Qualcomm Atheros"), or a company owned, controlled, or under common control with Qualcomm Technologies ("QTI Affiliate(s)") with authorized access to the Qualcomm CDMA Tech Support website, Qualcomm Atheros Support website, or QTI Affiliates' website. Access by unauthorized individuals is prohibited by law, and users may not grant access to unauthorized users.

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Certain components for use in the U.S. are available only through licensed suppliers. Some components are not available for use in the U.S. Support Services in the U.S. may be limited.

If you have any questions, please email Qualcomm Technologies at [support.cdmatech@qti.qualcomm.com](mailto:support.cdmatech@qti.qualcomm.com)

## Figure 3-1 Non-Disclosure Agreement

Contact your QTI account representative to request access to the QTI system or for any questions regarding the distribution of the regulatory documents.

# 4 Additional Regulatory Conformance Testing and/or Submissions Required by the Integrator

---

The global modular certifications apply to radio conformance for the Module only.

The other equipment manufacturer (OEM) integrator is responsible for additional system-level EMI/EMC and product safety testing and certification that applies in the U.S. and other countries to the host system containing the Module. This includes, but is not limited to, Federal Communications Commission (FCC) Part 15 Class B Digital Emissions, Japan, Korea KC, ETSI EN 301 489-17 and others.

These system-level EMC tests are to be done with the Module installed and should be included in the scope of the submission.

Some of the countries for which modular certifications are provided require additional submissions, authorizations, or import permission by the system vendor or importer. The integrator is responsible for these additional actions.

Modular radio certification is not possible in some countries. For such countries, OEM integrators must ensure radio certification for the end system is obtained before placing the product on the market. A current list of applicable countries can be provided by QTI.

Contact your QTI account representative if you have questions about the additional regulatory conformance testing and/or related submissions.

# 5 Compliant/Allowable Transmit Power

---

This file contains the transmit (Tx) power settings to be programmed in the board data file in the software. The software image is installed at the time of the manufacturing of the module.

The board data information is provided by QTI. Contact your QTI account representative for more information about the board data file.

# 6 Allowable Antennas to Use with the Radio Module

---

The module is certified for use only with certain antennas as described in this section.

**NOTE:** Allowed antenna type: Monopoles with omni-directional patterns formed from stamped metal or film.

**Table 6-1 Allowed maximum gain (dBi), including antenna cable loss**

Frequency band	Antenna gain (dBi, including cable loss)
824–849 MHz WWAN	-0.3
1850–1910 MHz WWAN	0.9
2.4 GHz WLAN/BT	0.6
5.150–5.850 GHz WLAN	1.9

**WARNING:** Use of other antenna types or the same type of antenna but with higher gain than listed above is not allowed without additional testing and appropriate FCC approval.

Use of other similar antennas may only require a Class 1 Permissive Change (C1PC) to confirm the performance, for maximum permissible exposure (MPE) is the same or better (i.e., lower) but only an equivalent antenna can be used without any additional testing.

Contact your QTI account representative for additional guidance if you decide to use different antenna types or higher gain antennas in the end system.

Some examples of antenna types not considered the same type as PIFA are dipole/monopole, PCB trace, patch, and chip antennas.

In addition, regulatory agencies in Japan and Korea require submission of antenna specification sheets for all antenna models used with the Module. This notification process must be followed by the integrator before original product launch and whenever new host systems (with new antenna models) are launched.

# 7 Antenna Placement Inside the Host System and RF Safety

---

The FCC and other countries' regulatory bodies impose strict conditions and limitations on the radio frequency (RF) exposure levels of end products. Acceptable RF exposure levels for this Module depend on transmit power, the location of the transmitting antenna(s) inside the host system, and the expected separation of the transmitting antennas to the end user. OEM integrators must take great care to ensure each host system complies with the applicable RF exposure requirements.

**NOTE:** **For mobile devices:** The antenna-to-user separation distance must be greater than 20 cm.

**WARNING:** Failure to adhere to these separation/spacing rules will invalidate the FCC certification for the Module.

- Separation is measured between the closest point of each transmitting antenna inside the host device to the point of contact by the user or nearby person outside of the host device.
- When transmitting antennas are installed in the display section of notebooks/netbooks/laptops, the display section shall not have metallic components and material that can influence or change the operating and RF exposure characteristics of the antennas.
- The transmitter module may not be co-located with any other transmitter or antenna.

Where one or more of the conditions above cannot be met for a particular host system, additional testing will be required to secure the necessary certifications for the system.

Contact your QTI account representative with any questions regarding compliance of the host system(s) with these restrictions.

**NOTE:** These restrictions do not apply to receive-only antennas.

# 8 Simultaneous Transmission with Other Integrated or Plug-In Radios

---

The FCC imposes conditions and limitations when additional radios are co-located in the same host system as the QTI Module *with capability to transmit simultaneously*. The detailed rules from the FCC are described in various Knowledge Database publications that may be found using the instructions below. Co-locating other radios with the QTI module requires additional evaluation and possibly submission for authorization from the FCC.

Because the rules are highly dependent on the characteristics of the particular radios that are co-located and simultaneously transmitting, the OEM integrator should seek guidance from a knowledgeable test lab or consultant to determine if additional testing and FCC certification is required. In this case, failure to evaluate and follow the required FCC procedures will invalidate the FCC certification of the Module and end system.

To download the FCC rules for collocated radios:

1. Visit <https://apps.fcc.gov/oetcf/kdb/index.cfm>
2. Enter 616217 in the Publication Number search box
3. Download the latest applicable version of the KDB 616217 document.

For expert advice regarding collocation rules, contact an FCC-approved Telecommunication Certification Body (TCB):

1. Visit <https://apps.fcc.gov/oetcf/kdb/index.cfm>.
2. Choose your country and/or state from the pull-down list.
3. Scroll through the search results and choose a TCB contact from which to seek advice.

Contact your QTI account representative with any questions regarding compliance of the host system(s) with the above restrictions.

## 9 Module May Not Be Installed by End Users

---

FCC rules require the Module to be installed in host systems at the factory by the OEM integrator. Thus, end users of the system may not install the Module. Therefore, the host product user instructions must not advise the end user on how to access or remove the Module. Additional FCC authorization/filing is needed to allow end-user installation of radio modules.

# 10 Required Labeling on the Outside of the Host

---

**NOTE:** Explanatory text in **red** must not be included in the final label.

## 10.1 FCC

- The FCC requires a label on the outside of the host system visible to the end user. Example wording is as follows:

Contains:  
FCC ID: XXX-XXXXXXX  
IC: XXXXX-XXXXXXX

**(Replace X's with actual IDs found in Chapter 1).**

- The FCC requires a logo signifying emissions compliance on the outside of the host system. Additional options are available for placement of the FCC label on the host. Refer to the [FCC Knowledge Database KDB784748](#).

**NOTE:** The Integrator is responsible for performing FCC Part 15 Class B digital emissions testing on the end system with the radio Module installed. The FCC logo below should not be affixed unless the OEM integrator has obtained the necessary Part 15 approval, e.g., Self-Declaration of Conformity.

If the host system is approved to FCC Class B digital emissions limits under a grant of certification issued by a TCB, the FCC ID number shown on the grant should be used on the label instead of the FCC logo below.



## 10.2 European Community R&TTE

- The European Community R&TTE Directive requires the CE marking shown below *on the outside of the host AND on the outside of the shipping container/packaging*:



For 5 GHz or 2.4 GHz = 5 GHz dual bands

- The European Community R&TTE Directive also requires the following note to consumers *on the outside of the shipping container/packaging:*

Important Notice: This product is a radio LAN device operating in 2.4 and 5 GHz bands (or 2.4GHz band) for home and office use in the E.E.A.			
AT	BE	CH	CY
CZ	DE	DK	ES
FI	FR	GB	GR
EE	HU	IT	IE
IS	LI	LT	LU
LV	MT	NL	NO
PL	PT	SE	SI
SK			

**NOTE:** The Integrator is expected to translate the text in this section into the appropriate local languages for the European countries in which the product will be marketed or sold.

# 11 Required Labeling on the Module

---

## 11.1 FCC labeling on the Module

The integrator must ensure that the FCC ID (as indicated in Chapter 1) is affixed on the Module along with other country certification numbers and logos as described herein.

**NOTE:** The Module original design manufacturer (ODM) may affix regulatory labeling at the time of Module manufacturing. However, the production contract original equipment manufacturer (PCOEM) must ensure the Module label is complete, correct, and applicable for all countries to which the host system is to be imported, marketed, or sold.

## 11.2 Rest of world labeling on the Module

The integrator must ensure the Module includes a global regulatory label with certification numbers and logos for all target countries. The system integrator is responsible to confirm that the final regulatory label on the radio Module contains all required certification IDs for all countries in which the system will be marketed or sold.

It is recommended that the PCOEM implement a review and sign-off process as well as change control process with each Module ODM to ensure that the module label meets PCOEM requirements.

QTI provides sample artwork with the applicable certification numbers for this Module. The provided PDF document can be opened using Adobe Illustrator, so the sample artwork can be copied and modified as needed. Therefore, the final label produced by the Module manufacturer will vary from this sample. However, the logos and certification numbers must be those shown in the sample global label.

Contact your QTI account representative with any questions regarding module labeling.

## 11.3 Instructions to download the sample global label artwork with certification IDs

1. Log in to the QTI CreatePoint system. Follow the links to regulatory certifications.

**NOTE:** Search for Module QM8626 in the CreatePoint system.

2. Find Sample Labeling for Module.
3. Download the PDF file found in the folder.

If you do not have access to the CreatePoint system, contact your QTI account representative to request the Sample Label file.

# 12 Required Regulatory Wording for User Manual/Installation Manual

---

The integrator must include text in the user manual meeting the regulators' requirements. The text below or similar wording should be used.

**NOTE:** Text in **red** must be replaced.

## 12.1 FCC compliance information

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.

This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate the warranty and all applicable regulatory certifications and approvals, including authority to operate this device.

### FCC Part 15 Digital Emissions Compliance

We **[System Manufacturer Name, Address, Telephone]**, declare under our sole responsibility that the product **[System Name]** 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.

**WARNING:** 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 and radiates 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 or more 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 than the one the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet prepared by the FCC helpful: **The Interference Handbook**

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No.004-000-00345-4.

**(Notice for 5 GHz and/or when co-located with 5 GHz transmitters, the following statements should be provided for user information)**

- RF exposure statement
- Radiation exposure statement

The product complies with the FCC portable RF exposure limits 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 can be kept as far as possible from the user body or if the device can be set to lower output power if such function is available.

## 12.2 Industry Canada notice

This device complies with Canadian RSS-210.

This device complies with Industry Canada license-exempt RSS standards. 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

**(Notice for 5 GHz and/or when co-located with 5 GHz transmitters, the following statements should be provided for user information)**

### Caution

1. The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
2. The maximum antenna gain permitted for devices in the band 5725–5825 MHz shall comply with the effective isotropic radiated power (EIRP) limits specified for point-to-point and non-point-to-point operation as required by the FCC regulations.
3. Users should also be advised that high-power radars are allocated as primary users (i.e., priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to low energy local area network (LE-LAN) devices.

### Avertissement

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment:

1. Les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
2. Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non-point à point, selon le cas.
3. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.
  - RF exposure statement
  - Radiation Exposure Statement:

The product complies with the Canada 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 can be kept as far as possible from the user body or if the device can be set to lower output power if such function is available.

## 12.3 European Community (R&TTE) user manual wording and declaration

**NOTE:** Text in red must be replaced with the name of the company responsible for placing the system on the European Community Market.

### Europe – EU Declaration of Conformity

Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards:

EN300 328, EN 301 893, EN 301 489-17, EN60950, EN 62311

**Table 12-1 EU CE mark compliance statements**

Country	CE mark compliance statement
 Česky [Czech]	[COMPANY NAME] tímto prohlašuje, že tento Radiolan je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede [COMPANY NAME] erklærer herved, at følgende udstyr Radiolan overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erklärt [COMPANY NAME] dass sich das Gerät Radiolan in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab [COMPANY NAME] seadme Radiolan vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

Country	CE mark compliance statement
[en] English	Hereby, <b>[COMPANY NAME]</b> , declares that this Radiolan is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
[es] Español [Spanish]	Por medio de la presente <b>[COMPANY NAME]</b> declara que el Radiolan cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
[el] Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <b>[COMPANY NAME]</b> ΔΗΛΩΝΕΙ ΟΤΙ Radiolan ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
[fr] Français [French]	Par la présente <b>[COMPANY NAME]</b> déclare que l'appareil Radiolan est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Íslenska [Icelandic]	Hér með lýsir <b>[COMPANY NAME]</b> yfir því að Radiolan er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.
[it] Italiano [Italian]	Con la presente <b>[COMPANY NAME]</b> dichiara che questo Radiolan è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
[lv] Latviski [Latvian]	Ar šo <b>[COMPANY NAME]</b> deklarē, ka Radiolan atbilst Direktīvas 1999/5/EK būtiskajām prasībām un cītiem ar to saistītajiem noteikumiem.
[lt] Lietuvių [Lithuanian]	Šiuo <b>[COMPANY NAME]</b> deklaruoj, kad šis Radiolan atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
[mt] Malti [Maltese]	Hawnhekk, <b>[COMPANY NAME]</b> , jiddikjara li dan Radiolan jikkonforma mal-ħtiġijiet essenziali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
[hu] Magyar [Hungarian]	Alulírott, <b>[COMPANY NAME]</b> nyilatkozom, hogy a Radiolan megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
[nl] Nederlands [Dutch]	Hierbij verklaart <b>[COMPANY NAME]</b> dat het toestel Radiolan in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
[no] Norsk [Norwegian]	<b>[COMPANY NAME]</b> erklærer herved at utstyret Radiolan er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.
[pl] Polski [Polish]	Niniejszym <b>[COMPANY NAME]</b> oświadcza, że Radiolan jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
[pt] Português [Portuguese]	<b>[COMPANY NAME]</b> declara que este Radiolan está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
[sl] Slovensko [Slovenian]	<b>[COMPANY NAME]</b> izjavlja, da je ta Radiolan v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
[sk] Slovensky [Slovak]	<b>[COMPANY NAME]</b> týmto vyhlasuje, že Radiolan spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
[fi] Suomi [Finnish]	<b>[COMPANY NAME]</b> vakuuttaa täten että Radiolan tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[sv] Svenska [Swedish]	Härmed intygar <b>[COMPANY NAME]</b> att denna Radiolan står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

The restriction described below follows ERC/REC 70-03 (edition of September 2011). It is recommended to check the latest edition for updated restrictions.

**Table 12-2 Restrictions for use of 2.4 GHz frequencies in European community countries**

France	Outdoor use is limited to 10 mW EIRP within the band 2454–2483.5 MHz.
Italia	For private use, a general authorization is required if WAS/RLANs are used outside one's own premises. For public use, a general authorization is required.

## 12.4 European Community (R&TTE) Declaration of Conformity for System

In addition to including the radio conformity wording described in the previous section in the user manual, the end integrator must also create and sign a European Declaration of Conformity (DoC) for all European Directives applicable to the end product. At a minimum, this will be a DoC per the R&TTE Directive covering radio, EMC, product safety and RF exposure essential requirements. The DoC must reference harmonized standards used for all radios present in the system.

Click this link for full details of [R&TTE DoC requirements](#).

**NOTE:** An image of the DoC signed by the OEM integrator may be included in the user manual or a link to the DoC on the integrator's company web site should be provided in the user documentation.

## 12.5 Korea user manual wording

### Korea KCC

해당 무선설비는 전파통신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

# 13 OEM Integrator Checklist

---

The party below will implement the QTI Module in host systems in accordance with the instructions specified in this document and the documents referenced herein.

- The OEM integrator will ensure the Module is integrated in a host system using only the approved antenna models described in this document.
- The OEM integrator will ensure the antenna placement inside the host system will maintain the required spacing to end user for RF exposure compliance, as specified in this document.
- If other radios are integrated inside the host with the Module, the OEM integrator will contact its test lab, TCB or QTI to determine if additional FCC compliance evaluation is required to meet FCC collocation rules.
- The OEM integrator will ensure end user documentation contains the specified regulatory wording and that the host system and the Module itself are labeled as specified in this document.
- The OEM integrator will ensure the Module is programmed at the factory with compliant transmit power not exceeding the levels specified in this document.

**QTI requests that the OEM integrator acknowledge its receipt of this document and the above instructions. You may contact QTI with any questions concerning this document or the responsibilities of the OEM integrator.**

Company name \_\_\_\_\_ Signature \_\_\_\_\_

Company address \_\_\_\_\_ Name \_\_\_\_\_

\_\_\_\_\_ Title \_\_\_\_\_

Email \_\_\_\_\_

Phone (      ) \_\_\_\_\_

Please email a signed and completed copy of this acknowledgment to  
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