

Regulatory Module Integration Instructions

This Module has been granted modular approval for Mobile applications. OEM integrators for Host products may use the Module in their final products without additional FCC / IC certification if they meet the following conditions. Otherwise, additional FCC / IC approvals must be obtained.

- The user's manual for the Host product must clearly indicate the operating requirements and conditions that must be observed to ensure compliance with current FCC / IC RF exposure guidelines.
- To comply with FCC / IC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a Mobile-only exposure condition must not exceed 5.4dBi. The following are certified antennas:
 - TE Linx ANT-916-MHW-RPS-S. The antenna must be customized to replace the SMA connector with a MMCX male plug.
The antenna must maintain a minimum separation of 20 centimeters from the user and nearby persons during use.
- The external surfaces of the Host product must clearly display the following statements:

This device contains FCCID: CBF-IM1701B

This equipment contains equipment certified under IC: 1339A-IM1701B

The final Host / Module combination may also need to be evaluated against the FCC Part 15B criteria for unintentional radiators in order to be properly authorized for operation as a Part 15 digital device.

The Module is not intended for use as a Portable device, therefore, if the final Host / Module combination is intended for use as a Portable device, the Host manufacturer is responsible for separate approvals for the specific absorption rate SAR requirements from FCC Part 2.1093 and RSS-102.

The Module is intended for use as a Mobile device, formally defined below.

FCC Definition of Mobile

Mobile: (§2.1091) (b) — A Mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. Per §2.1091d(d)(4) In some cases (for example, modular or desktop transmitters), the potential conditions of use of a device may not allow easy classification of that device as either Mobile or Portable. In these cases, applicants are responsible for determining minimum distances for compliance for the intended use and installation of the device based on evaluation of either specific absorption rate (SAR), field strength, or power density, whichever is most appropriate.

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Simultaneous Transmission Evaluation

This Module has **not** been evaluated or approved for simultaneous transmission as it is impossible to determine the exact multi-transmission scenario that a Host manufacturer may choose. Any simultaneous transmission condition established through Module integration into a Host product **must** be evaluated per the requirements in KDB447498D01(8).

These requirements include, but are not limited to:

- Transmitters and Modules certified for Mobile or Portable exposure conditions can be incorporated in Mobile Host devices without further testing or certification when:
 - The closest separation among all simultaneous transmitting antennas is ≥ 20 cm,
- Or
- Antenna separation distance and MPE compliance requirements for **ALL** simultaneous transmitting antennas have been specified in the application filing of at least one of the certified transmitters within the Host device. In addition, when transmitters certified for Portable use are incorporated in a Mobile Host device, the antenna(s) must be ≥ 5 cm from all other simultaneous transmitting antennas.
- All antennas in the final product must be at least 20 cm from users and nearby persons during use.

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OEM Instruction Manual Content

Consistent with §2.909(a), the following text must be included within the user's manual or operator instruction guide for the final commercial product.

Operating Requirements and Conditions:

The design of vImpulse complies with U.S. Federal Communications Commission (FCC) and Canadian Industry Canada (IC) guidelines respecting safety levels of radio frequency (RF) exposure for Mobile devices.

This product contains FCCID: CBF-IM1701B

This equipment contains equipment certified under IC: 1339A-IM1701B

Note: In the case where the Host / Module combination has been re-certified the identifiers shall appear in the product manual as follows:

FCCID: *ID of Host / Module combination*

IC: *ID of Host / Module combination*

This product contains FCCID: CBF-IM1701B

This equipment contains equipment certified under IC: 1339A-IM1701B

Mobile Device RF Exposure Statement:

RF Exposure - This device has been tested for compliance with FCC RF exposure limits in a Mobile configuration. At least 20 cm of separation distance between the antenna of the vImpulse device and the user's body must be maintained at all times. At least 20 cm of separation distance between the antenna of the vImpulse device and nearby persons bodies must be maintained at all times. This device must not be used with any other antenna or transmitter that has not been approved to operate in conjunction with this device.

Caution Statement for Modifications:

CAUTION: Any changes or modifications not expressly approved by Control Chief Corporation could void the user's authority to operate the equipment.

FCC Part 15 Statement (Only Include if FCC Part 15 is Required on the End Product):

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. Part 15 guidelines per §15.105 and §15.19 May apply.

The final Host / Module combination may also need to be evaluated against the FCC Part 15B criteria for unintentional radiators to be properly authorized for operation as a Part 15 digital device.

The Module is not intended for use as a Portable device, therefore, if the final Host / Module combination is intended for use as a Portable device, the Host manufacturer is responsible for separate approvals for the specific absorption rate (SAR) requirements from FCC Part 2.1093 and RSS-102.