

# FCC REGULATORY COMPLIANCE

## INTEGRATION AND USE INFORMATION

### INTEGRATION CONSIDERATIONS AND INSTALLATION REQUIREMENTS

The Enabler-G OEM GPRS modem is designed for use in a variety of host units, "enabling" the host platform to perform wireless data communications. However, there are certain criteria relative to integrating the modem into a host platform such as a PC, laptop, handheld or PocketPC, monitor and control unit, etc. that must be considered to ensure continued compliance with FCC compliance requirements.

The modem was tested and certified to meet FCC Parts 15 and 24 in a stand-alone configuration, demonstrating that the Enabler-G complies with Part 15 emission limits regardless of the device into which it may be installed. Further, to provide relief in certain applications for the host integrator, the Enabler-G was approved under the "modular approval" process for a transmitter. This approach, described by FCC Public Notice DA 00-131407 released June 26, 2000, is intended to afford relief to equipment manufacturers by eliminating the requirement for obtaining a new equipment authorization for the same transmitter when installed in a new device.

However, the host platform integrator must follow all installation instructions and cautionary information necessary to comply with FCC RF exposure requirements.

In order to use the Enabler-G without additional FCC certification approvals, the installation must meet the following conditions. Otherwise, additional FCC approvals must be obtained.

1. **Fixed and "mobile" applications:** At least 20 cm (7.9 in.) separation distance between the antenna and the user's body must be maintained at all times. For the transmitter to meet the MPE categorical exclusion requirements of 2.1091, the ERP must be less than 1.5 watts for personnel separation distance of at least 20 cm (7.9 in.).

The maximum antenna gain cannot exceed +3.3dBi. If greater than 1.5 watts exists, then additional testing and FCC approval is required (e.g., see 3 below).

2. If used with a desktop or other application where the antenna can be easily relocated to meet the 20 cm criteria, then this is considered a "**mobile**" application.

If used in a "**mobile**" application where the antenna is normally separated at least 20 cm (7.9 in) from the human body during device operation, then an appropriate warning label must be placed on the host unit adjacent to the antenna.

The label should contain a statement such as the following:

**WARNING**  
**RF exposure. Keep at least 20 cm**  
**(7.9 in) separation distance from**  
**the antenna and the human body.**

3. "**Portable**" applications: If used in a "portable" application such as a handheld device with the antenna less than 20 cm (7.9 in.) from the human body when the device is operating, then the integrator is responsible for passing additional "as installed" testing.

**Separate FCC approval for RF exposure compliance** is required for end products that do not meet the separation or maximum antenna gain criteria.

- a. **SAR** (Specific Absorption Rate) testing, with results submitted to the FCC for approval prior to selling the integrated unit. If unable to meet SAR requirements, then the host unit must be restricted to "mobile" use (see 3 below).

- b. **Unintentional emissions**, FCC Part 15; results do not have to be submitted to the FCC unless requested, although the test provides substantiation for required labeling (see 5 below).
4. Host unit user manuals and other documentation must also include appropriate caution and warning statements and information.
5. If the FCC ID for the modem is not visible when installed in the host platform, then a permanently attached or marked label must be displayed on the host unit referring to the enclosed modem. For example, the label should contain wording such as:

Contains CDPD modem transmitter module  
FCC ID: MIVGSM0103

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.

**or**

Contains FCC ID: MIVGSM0103

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.

6. Any antenna used with the modem must be approved by the FCC as either a Class II Permissive Change (including MPEL or SAR data as applicable). The "professional installation" provision of FCC Part 15.203 does not apply.
7. The transmitter and antenna must not be co-located or operating in conjunction with any other antenna or transmitter. Violation of this would allow a user to plug another transmitter in to the product and potentially create an RF exposure condition.

**WARNING**

**The transmitter and antenna must not be co-located or operating in conjunction with any other antenna or transmitter. Failure to observe this warning could produce an RF exposure condition.**