MEIG EVB

User Guide

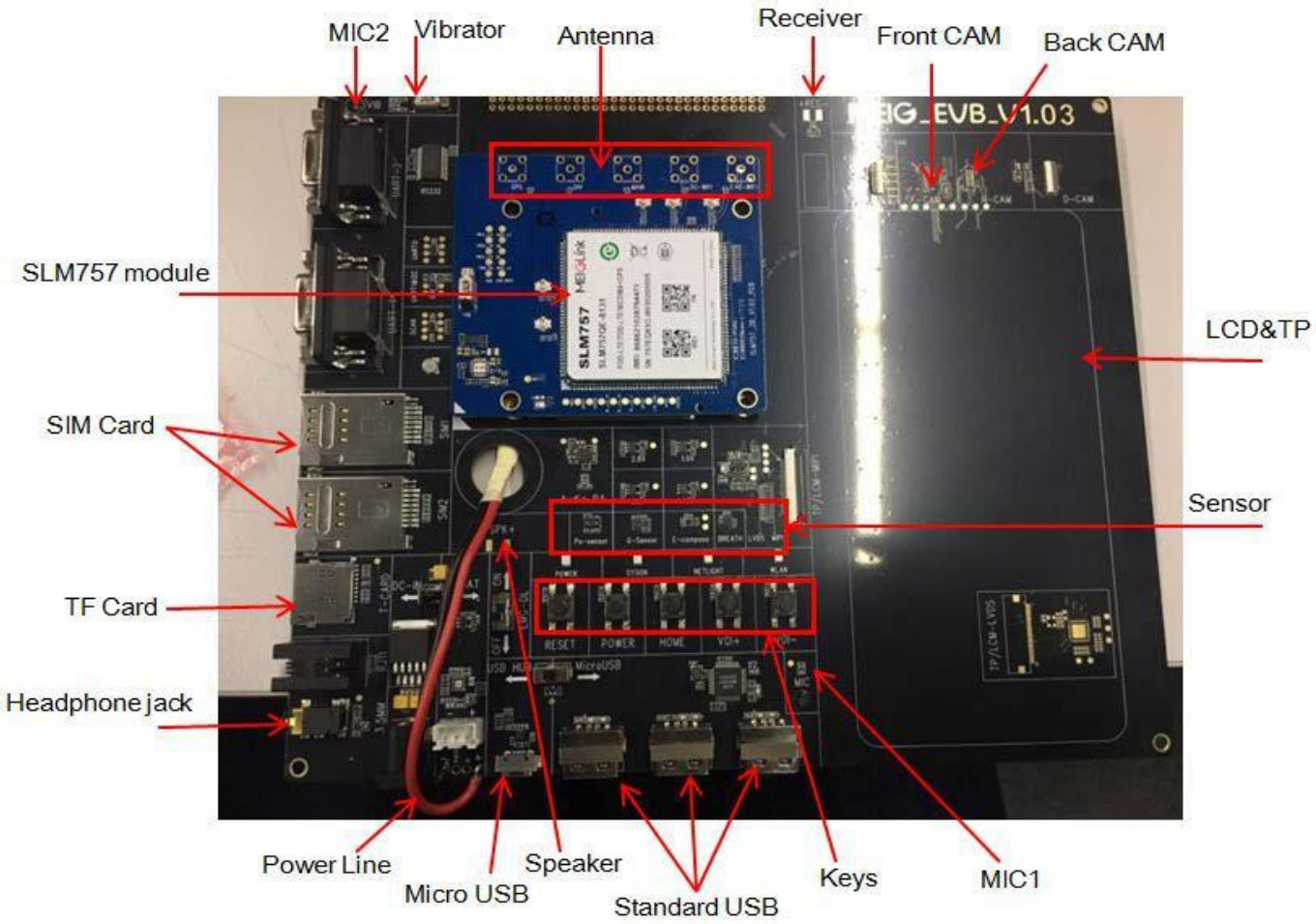
SLM757-module

SLM757

Manufacture:MeiG Smart Technology Co., Ltd

1 MEIG EVB Introduction

MEIG EVB is a functional development demo board that matches the SLM75X series modules. The interface layout is as follows:



2 MEIG EVB Hardware resource feature list

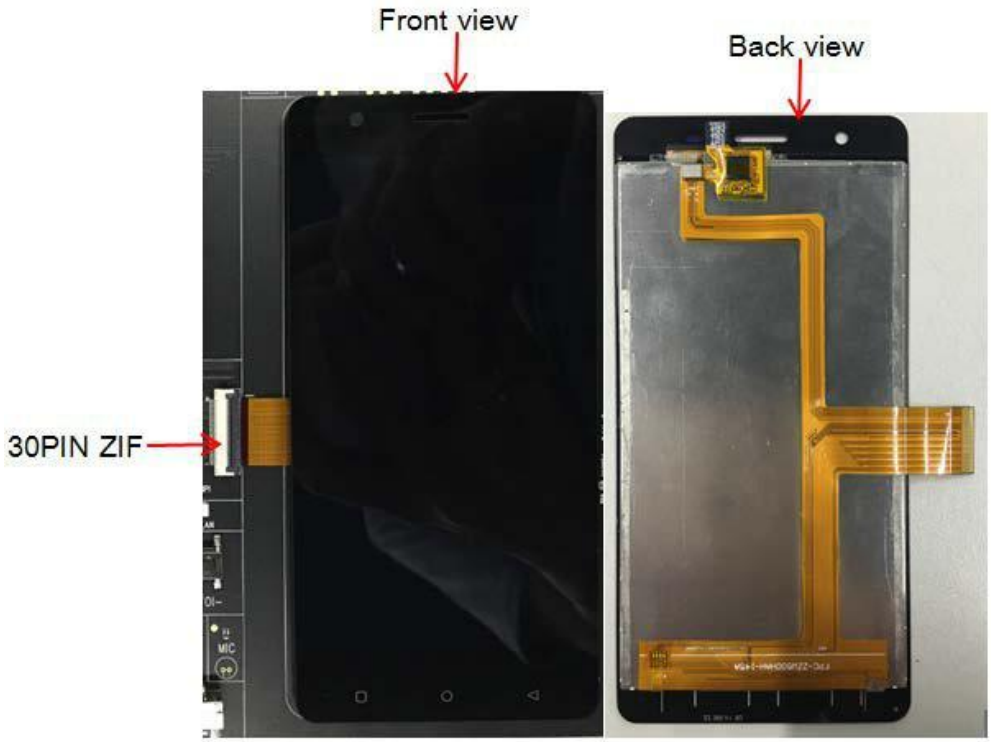
Product Features	Description
LCD	30pin ZIF, 4 Lane MIPI-ZIF Signal interface, PWM regulator backlight, Capacitive touch screen
Front CAM	30pin B2B, 4 Lane MIPI-B2B Signal interface
Back CAM	24pin B2B, 4 Lane MIPI-B2B Signal interface, autofocus
Standard interface resources	Two DB9 RS232 serial port 3.5mm stereo audio output interface Two-way microphone input board (1 main MIC, all the way noise reduction MIC), One way speaker output in the board One Road vibration motor Two groups of SIM card interface, hot swappable One T-card socket, hot swappable One way micro USB interface

	Three USB2.0 interface 5V DC voltage input
On-board ready to use resources	Five keys（Poweron、Vol+、Vol-、 Homekey、Reset） Gravity sensor Ambient light and proximity sensor Compass chip
Expansion interface resources	One 25pin ZIF, Used for external expansion of two-dimensional code scanning head A group of 1.8V expansion interface resources for external expansion of fingerprints or thermal printer and other functions (including SPI, I2C)
PCB size specifications	Layers: 4 Size：220mm*180mm*1.5mm

3 MEIG EVB Interface Description

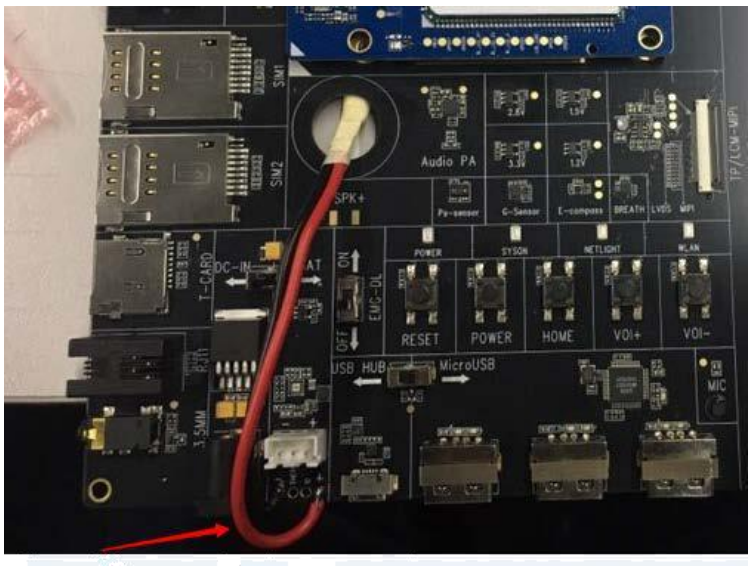
3.1 LCD Interface

MEIG EVB provides a LCD interface, a group of 30pin ZIF connector, ZIF connector with a 5-inch LCD, QHD resolution. The LCD with the TP for the capacitive TP, Driver IC on the touch screen FPC, EVB interface is for the I2C communication interface.



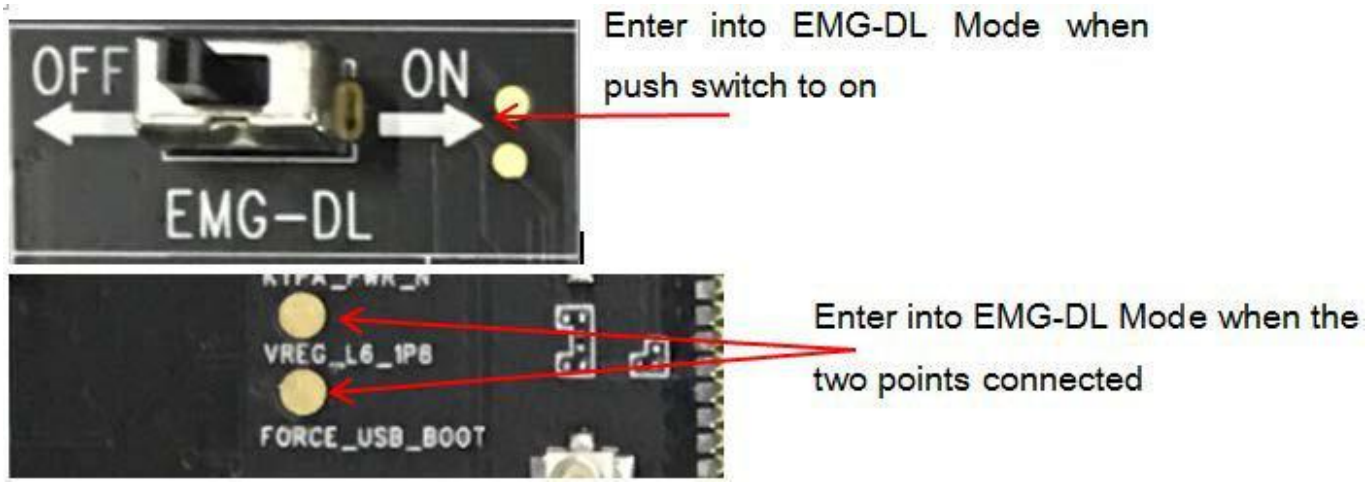
3.2 Power Interface

5V DC power supply, power line as shown below:



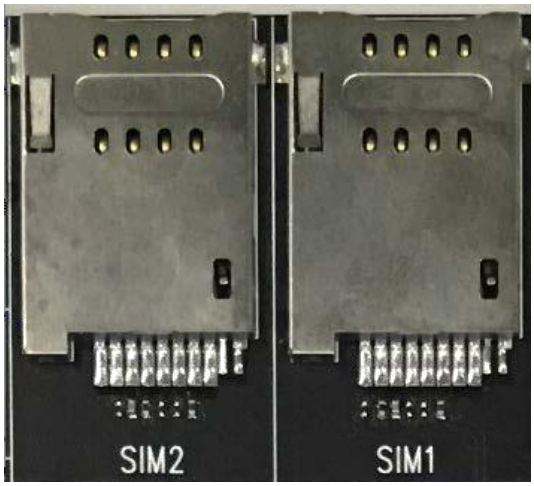
3.3 USB_BOOT Test Point

There are USB_BOOT and VREG_L6_1P8 two test points in the SLM757 core board foot and EVB middle position, VREG_L6_1P8 is 1.8V voltage output; USB_BOOT is pulled up to 1.8V will force the system into download mode. These two test points are shorted for die download and emergency download mode.



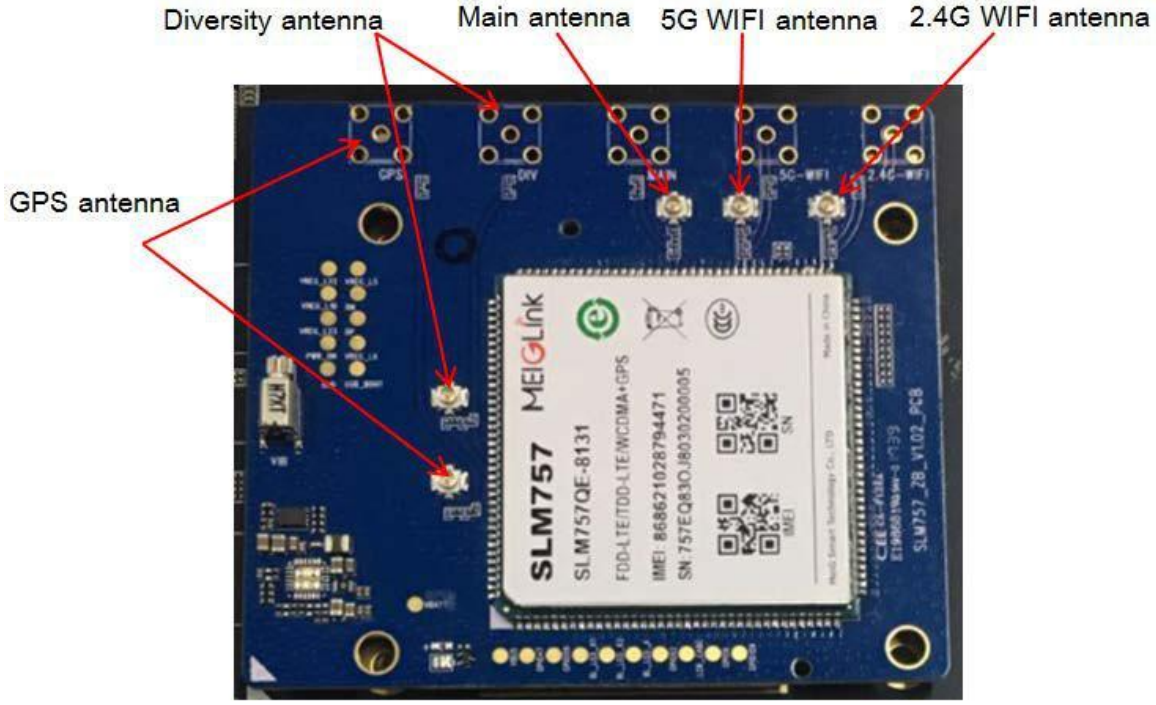
3.4 SIM Card

MEIG EVB supports two groups of SIM cards, both hot-swappable, dual-SIM dual standby. You can use the SIM card for calls, text messages, Internet access and other operations, , as shown below:



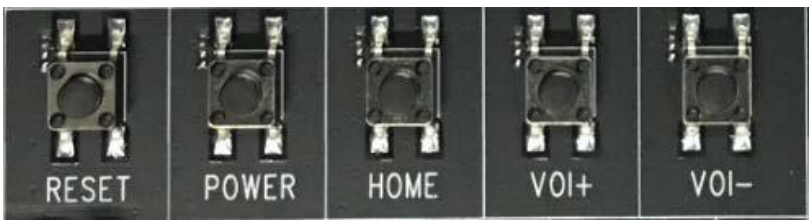
3.5 Antenna interface

MEIG EVB has a total of 4 antenna interfaces, and compatible with the coaxial interface, Connected to the antenna, you can carry out the relevant functional operation, such as dial number, as shown below:



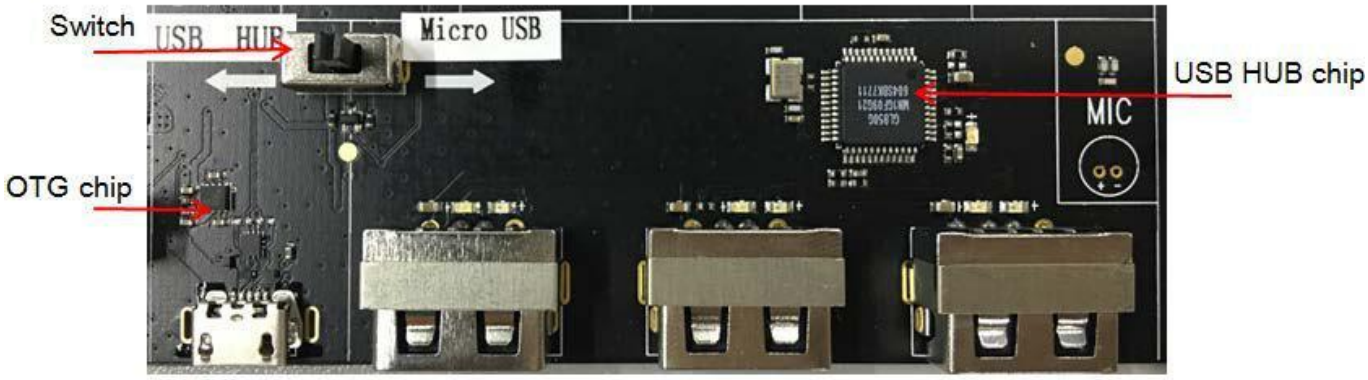
3.6 Keys

MEIG EVB has 5 keys, you can choose the button to carry out the corresponding function operation.



3.7 USB Interface

MEIG EVB USB has two external interfaces, the first for the micro USB external interface, support for USB debugging, OTG functions, U disk and other functions; the second is USB HUB for three sets of standard USB ports. The above two modes can be switched by DIP switch selection.



3.8 Headset Interface

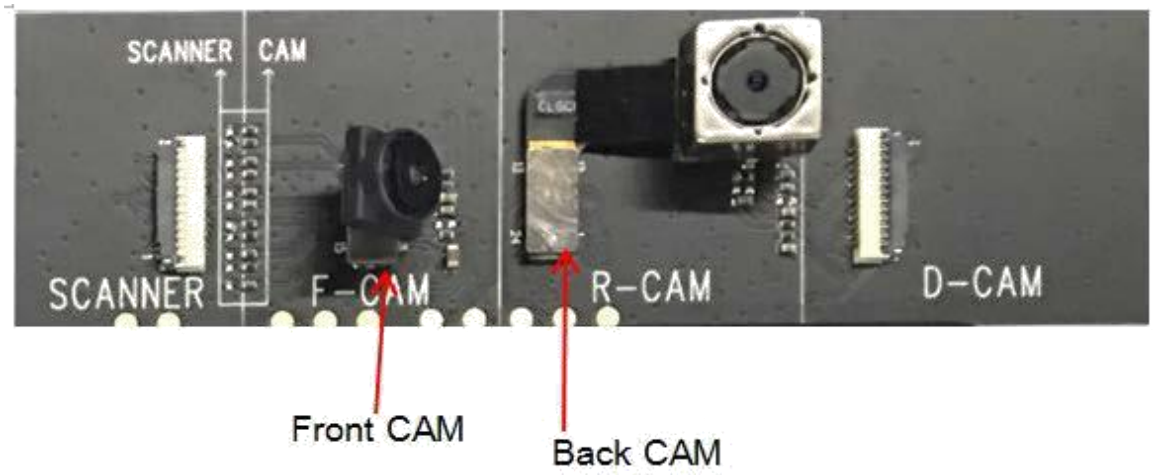
Headset jack supports a 3.5mm headphone jack.

3.9 T 卡 T Card

The push-push T card connector used in the MEIG EVB supports hot plugging.

3.10 Camera

MEIG EVB supports two cameras. The back camera uses 24pin B2B interface connector to connect. Front connection using 30pin B2B interface connector. Pixel respectively is 8M pixels and front 5M pixels.



4 Attentions

1. The interface and operation will be slightly different from the actual, please prevail.
2. The product body is subject to change without notice.
3. Before using the product, please read the instruction manual carefully。
4. Do not subject the product to strong shocks and vibrations (eg falling from a height).
5. Do not place this product near heaters and cooking places, do not expose the product to fumes, steam.
6. Please avoid direct sunlight, do not place the product in high temperature, high humidity and dusty places.
7. Do not wipe the product with organic solvents.
8. Please stop using this product if there is any abnormal phenomenon such as smoke, odor, noise or heat during use. Please stop using this product if it is wet or damaged.
9. Avoid using this product in a dusty environment, because it may affect the measured value, resulting in product failure.
10. Do not allow toddlers and children to play the products and accessories, preventing young children and children from disassembling and swallowing parts.
11. The company must be authorized by the after-sales service personnel for inspection and maintenance when products are damaged.

5 Antenna description

a) Main Antenna (2G/3G/4G Main Antenna)

Item	Description
Frequency	699-716; 729-746; 704-716; 734-746; 777-787; 746-756;826.4-846.6; 871.4-891.6; 1712.4-1752.6; 1852.4-1907.6; 1932.4-1987.6; 2112.4-2152.6; (MHz)
Antenna type	External antenna
Antenna gain	1dBi.
How to install antenna	The main antenna connect to the pin of 90

b) Wi-Fi/BT antenna

Item	Description
Frequency	2412-2472 MHz
Antenna type	External antenna
Antenna gain	2dBi
How to install antenna	Wifi/BT antenna connect to the pin of 74

FCC Statement

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device.

FCC Radiation Exposure Statement

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

“Contains Transmitter Module FCC ID: 2APJ4-SLM757 Or Contains FCC ID: 2APJ4-SLM757”

When the module is installed inside another device, the user manual of the host must contain below warning statements;

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Any company of the host device which install this modular with Single modular approval should perform the test of radiated emissionand spurious emission according to FCC part 15C : 15.247 requirement,Only if the test result comply with FCC part 15C : 15.247 requirement，then the host can be sold legally.

IC statement

This device complies with Industry Canada’s licence-exempt RSSs. 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.

Cet appareil est conforme aux CNR exemptes de licence d'Industrie Canada . Son fonctionnement est soumis aux deux conditions suivantes :

(1) Ce dispositif ne peut causer d'interférences ; etc

(2) Ce dispositif doit accepter toute interférence , y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

A separation distance of at least 20 cm is maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

Une distance de séparation d'au moins 20 cm est maintenue entre l'émetteur rayonnant structure (s) et le corps de l'utilisateur ou des personnes à proximité.

For a host manufacture's using a certified modular, if (1) the module's IC number is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the IC number of the module is visible; then an additional permanent label referring to the enclosed module: "Contains Transmitter Module IC: " 23860-SLM757" or "Contains IC: 23860-SLM757" must be used.