

Universal CLA/FM Transmitter

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F8V7105 Description

F8V7105 is a digital tuning FM transmitter with CLA and USB powered unit, this system consists of a FM transmitter, a car adapter and a USB connector, a MCU controller, a LCD display, an EEPROM programmer, as well as an audio detector, In addition to two press keys which are used to turn the proper FM frequency.

Transmitter

The transmitter is a FM stereo transmitting configuration, which radiates FM wave on the air by modulating the carrier signal with a composite signal. Transmission frequency is set from 88.1 to 107.9MHz.

MCU controller

This MCU controller (Samsung S3P9234) is used to control the system's radiating frequency by exchange data with the FM transmitter, in which we can press down and up button to select the transmission frequency for broadcast. In addition, two memory buttons can be used to store the frequency through the EEPROM. Press and hold the button for 2 seconds, then the icon will flash to indicate the desired frequency is stored. In the operation mode, press M1 or M2 button retrieve the memorized frequency.

LCD display

The LCD display is used to indicate the transmission frequency, so users can set the same channel for their car radio conveniently.

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Audio detector

Through the MCU controller, the unit will turn on when it detects an audio signal automatically.

Power supply

This product can be powered by an DC to DC regulator within the cigarette lighter adapter.

The DC regulator LM2596S-5.0 is a switch regulator, which transforms input DC into 5VDC as the whole system's power.

Control button

There are three function press buttons. One is up button for turning up the frequency, another is down button for turning down the frequency, and the other two buttons are for memories. Users employ those keys to manipulate easily. In addition to the above function, we can press and hold both up and down buttons simultaneously for about two seconds turn on the unit. To turn off the unit, press and hold both buttons simultaneously again for two seconds or so. At operation mode, press M1 or M2 button will toggle the memory slots to retrieve the memorized frequency. Moreover, when there is no key press after ten seconds the unit will return from memory mode back to operation mode.

Auto Power on & Auto Power off

If there is no audio input audio signal for 1 minute, the unit will power off automatically to conserve the power while the unit detects the input audio signal again, it will power in again automatically.

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FCC Statement

Note: 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, uses and can radiate 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 from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not authorized by the manufacturer may void users authority to operate this device

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.

A. * The letters "IC" have no other meaning or purpose than to identify the Industry Canada certification number/registration number.

B. "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."

