

# RF Transmitter Operational Description

## **SY-IPFM-08**

SY-IPFM-08 is low power stereo FM transmitter for iPod with 30pin iPod dock connector, that works across the FM broadcast band, allow iPod users to broadcast audio wirelessly from theirs iPod to FM radio, the transmission frequency is set from 88.3 to 102.0MHZ modulation type.

Antenna, Ground and power source.

There is no external antenna, there is no external ground connection, The ground is only that of the printed circuit board, electric current is Supplied by a 3.3 Volt DC.

This product mainly consists by 11 portions:

1. DC power Input for The iPod connector.
2. IC BH4148 PIN1 and PIN24 are audio R/L-CK INPUT.
3. IC BH4148 PIN2 and PIN23 are PRE-EMPHASIS TIME CONSTANT.
4. IC BH4148 PIN3 and PIN22 are LPT TIME CONSTANT.
5. IC BH4148 PIN5 is COMPOSITE SIGNAL OUTPUT.
6. IC BH4148 PIN7 is PLL PHASE DETECTOR OUTPUT.
7. IC BH4148 PIN14 and PIN15 are X' TAL OSCILLATOR
8. IC BH4148 PIN12 and PIN11 are RFOUTPUT or RFGND.

9. IC jp1 is MCU.

10. IC jp1 PIN11, 12, 13 give BH1418 PIN17,18,19 provide Chip Enable CLOCK DATA.

11. IC 24C01 is memory IC, and memory the broadcasting Frequency last time.