DS-456 Wireless Launch Principle

IC U4 EM78P153 is a master controller, offered the shaken frequency by Y1 4M crystal, controls IPOD/U2 2314/POWER/POWER LED/KEY, the IPOD signal to enter the U2 through U1 C4 C5, LINE-IN signal to enter U2 through R48 R49 C6 C7, U2 which is controlled by the U4 and may carry on the input channel cut and the volume control and send the signal of the audio frequency into wireless launch module through C21 C22 U3 R46 R47 C25 C26 after process in U2, IC3 modulates the signal of the audio frequency into the digital coding attached to 915M RF signal in the wireless module. IC7 is controlled and produced fixed 915M RF signal by IC5. The signal formatted amplifies the network and reaches ANT to launch through C5 through the high frequency that T5 T2 T3 makes up.

DS-456 Wireless Receive Principle

POWER SUPPLY enters the main unit through CN1, One No. give wireless receive via D1 and supplying power partly, the wireless module will receive the signal from transmitter through ANT CF1, will send the signal into IC3 through R18 C1, to separate the audio frequency signal attached to RF signal through IC3, and enter IC1 through T3 T5 T4 T6, Composed of T7 T9 and T8 T10 enlarging the circuit to export, send signal of the audio frequency into work to put some of through C11 C12, the signal sends into the power amplifier U7 through C14 R28 through VR1 volume control, U7 amplifies the signal to export. Another No. provides 5V working power for U2 main controller through IC1 78L05, U2 controls the charging of the lithium-ion battery, discharge and protect. Voltage-division Resistance of R13 R14 provides the value of reference voltage for U2 PB3 PIN, when value of this voltage is lower than the reference value, U2 turns on U1 COMS and in charge of providing the voltage of charging for battery through the switch circuit that R6 R5 Q2 R4 R3 Q1 Q3 R2 forms, LED1 is red at this moment, when equal to the reference value in voltage of U2 PB3 PIN, U2 PB1 PIN closes U1 through the switch circuit that R6 R5 Q2 R4 R3 Q1 Q3 R2 forms, the battery is charged and finished at this moment, LED1 turns into green. U3 U4 protects and controls IC for the lithium battery. It is U4 that quits working to protect the battery effectively when the out-put electric current oversized or short-circuits to the place.