



iriver Multi-Codec Jukebox H10 Partial Teardown

Chip identification of the iriver Multi-Codec Jukebox H10 MP3 player.

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INTRODUCTION

This is just a chip identification of the iriver Multi-Codec Jukebox H10 MP3 player and does not contain the full teardown process as I took this apart quite a while ago. Although there is a touchpad for this unit, I was unable to find it so therefore it would not be part of this teardown.

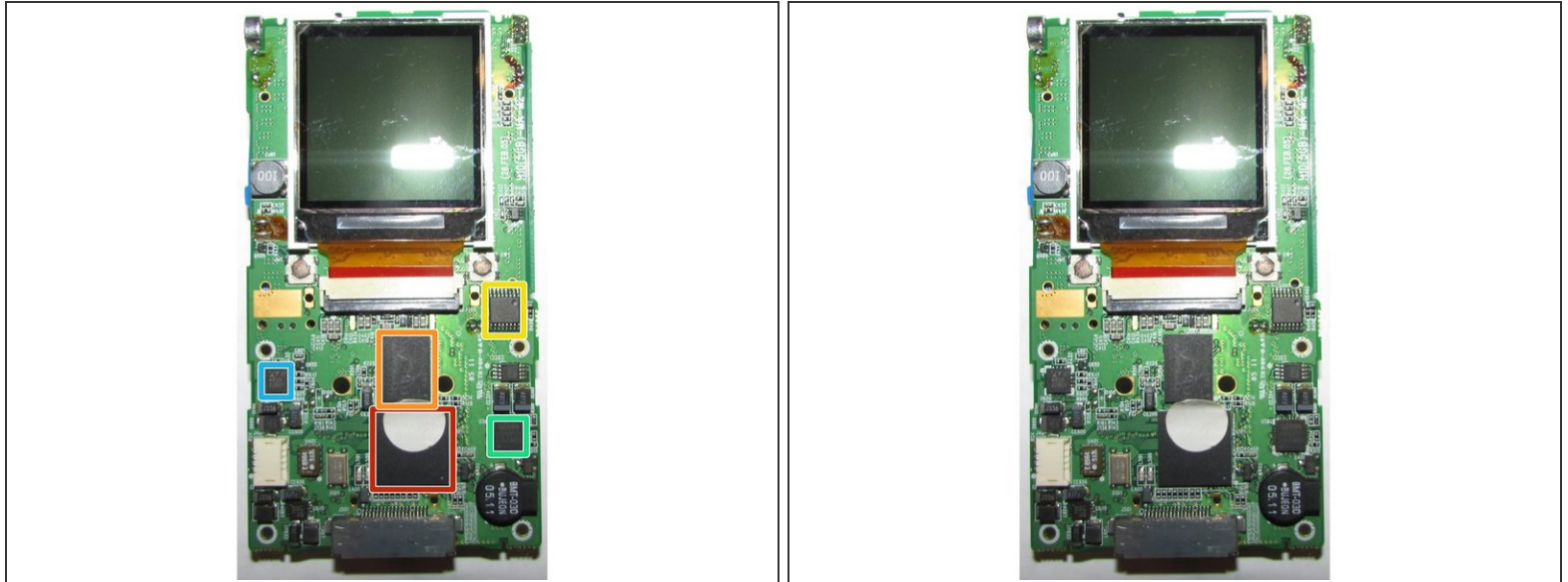
This teardown may be downloaded at the end of this guide.

Step 1 — iriver Multi-Codec Jukebox H10 Partial Teardown



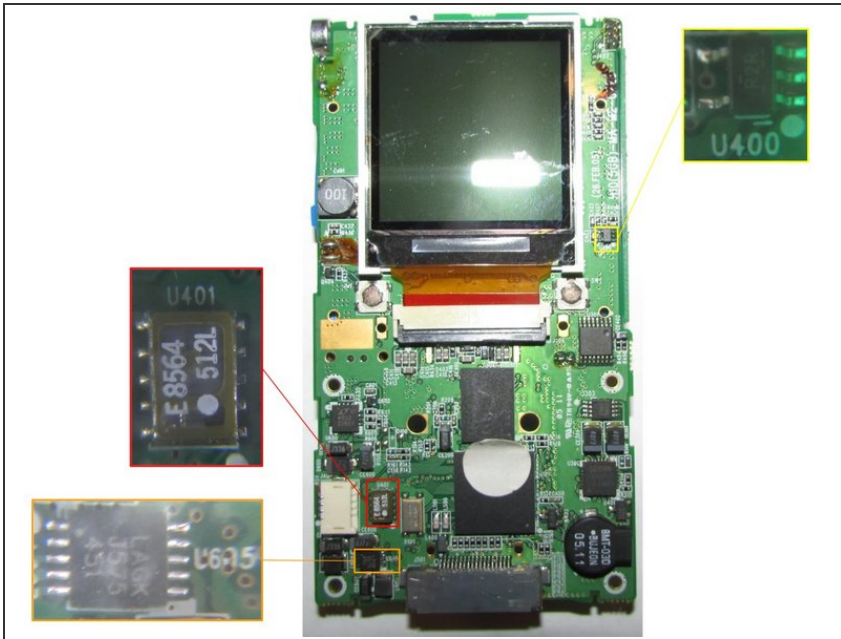
- Brand: iriver
 - Model: Multi-Codec Jukebox H10
 - Retail Price: ~\$70 (?)
 - Release Date: Unknown
 - Connectivity: USB 2.0; 18 pin connector; stereo mini-jack; connector for wired remote control
- ⓘ Note: This picture is from Guru3D; all other pictures in this report are taken by me.

Step 2



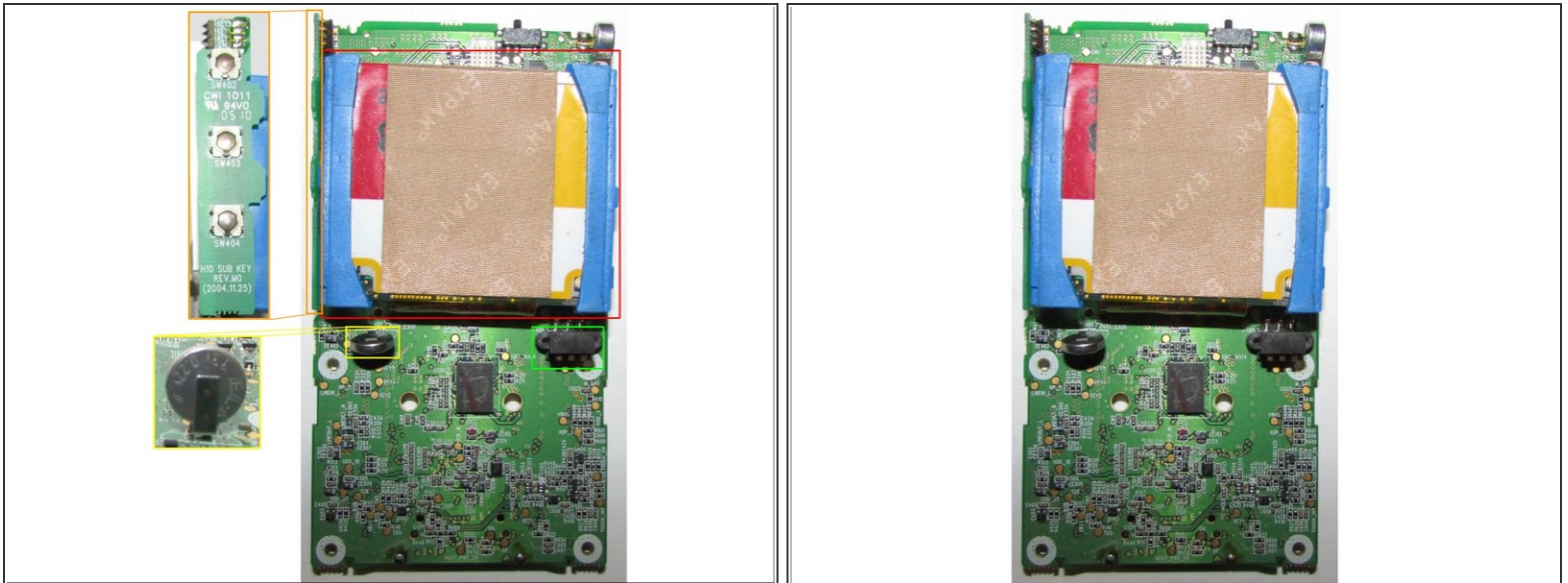
- Main PCB Front Side Chip Identification (Part 1):
 - PortalPlayer PP5020E-TF Media Processor
 - Samsung Semiconductor K4S561633F 4M x 16Bit x 4 Banks Mobile SDRAM
 - NXP Semiconductors (?) 74LV4052 Dual 4-channel analog Multiplexer/Demultiplexer
 - Wolfson Microelectronics WM8731 Portable Internet Audio CODEC with Headphone Driver and Programmable Sample Rates
 - Linear Technology LTC4055 USB Power Controller and Li-Ion Charger

Step 3



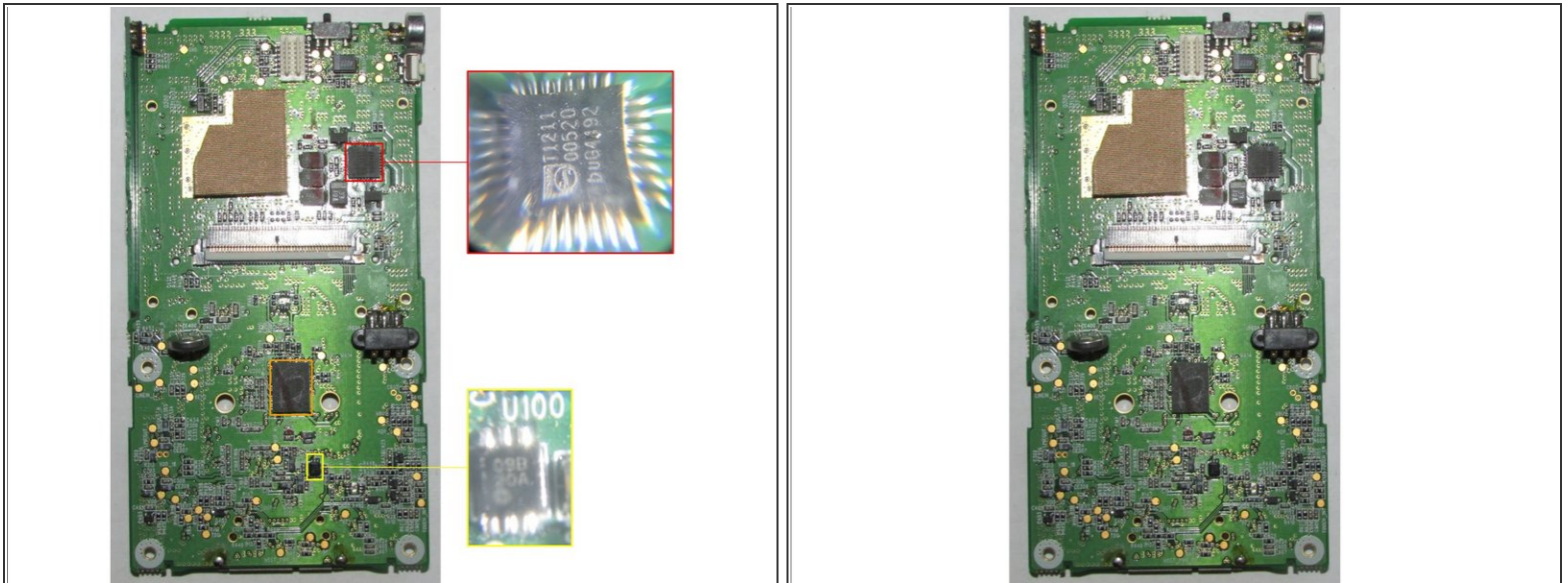
- Main PCB Front Side Chip Identification (Part 2):
 - Epson RTC-8564JE Real Time Clock Module
 - Unknown LAGKJ575451 (?) Unknown
 - Unknown R2R (?) Voltage Regulator (?)

Step 4



- Main PCB Back With Storage Unit Identifications:
 - Storage Unit 5 GB
 - Side Button PCB
 - 3.3v 0.22F Super Capacitor
 - Battery Pack Contacts

Step 5



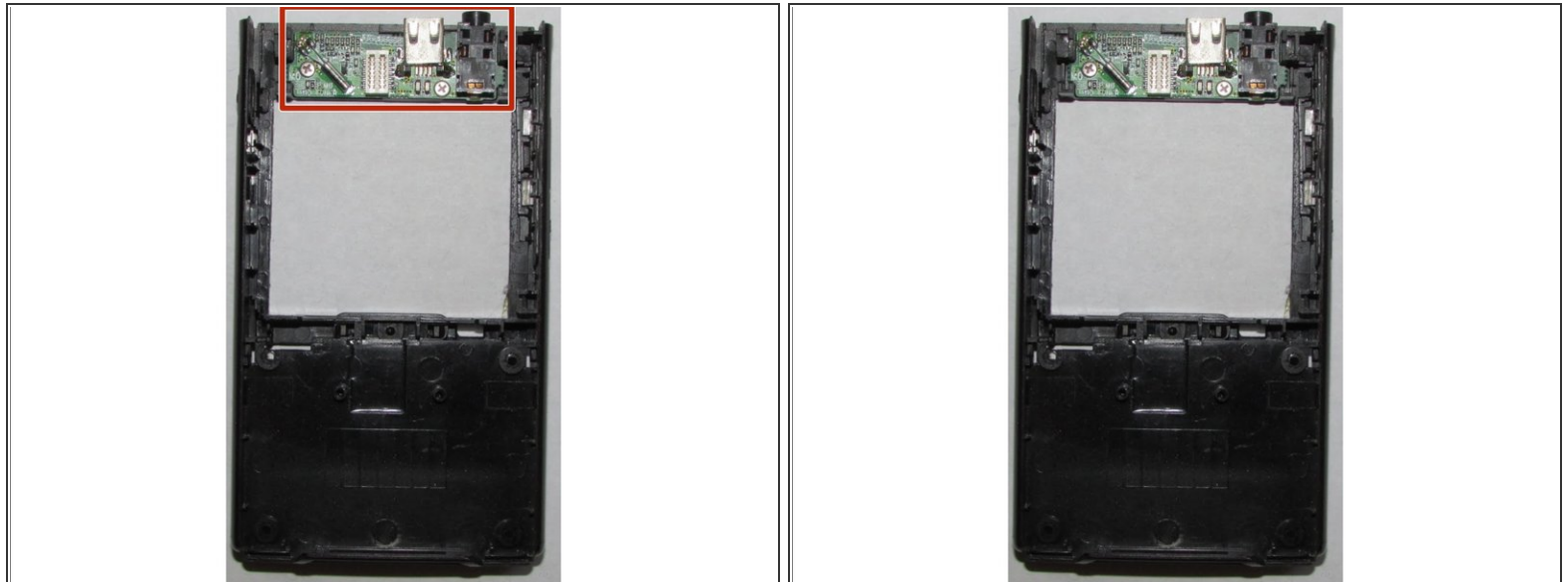
- Main PCB Back Chip Identification:
 - NXP Semiconductors TEA1211 High efficiency auto-up/down DC/DC converter
 - Microchip Technology SST89VF800A 8 Mbit (x16) Multi-Purpose Flash
 - Unknown 09B20A (?) Unknown

Step 6



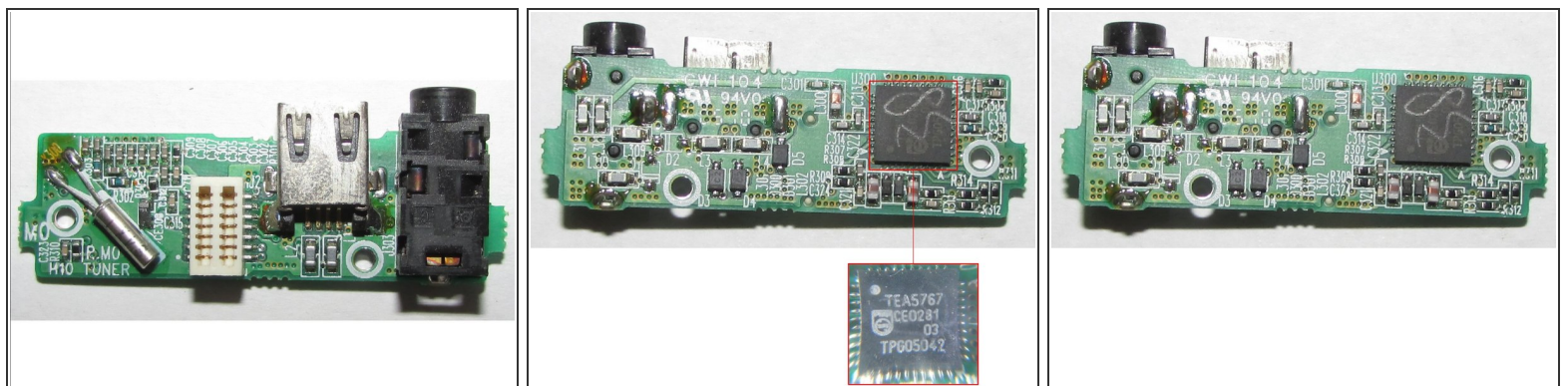
- Storage Unit Annotations:
 - Breather Hole
 - Rubber Shock Absorbing Bumpers
 - Flat Flex Cable
- Storage Unit Type: Seagate ST650211FX 5GB Hard Drive with Flex Cable

Step 7



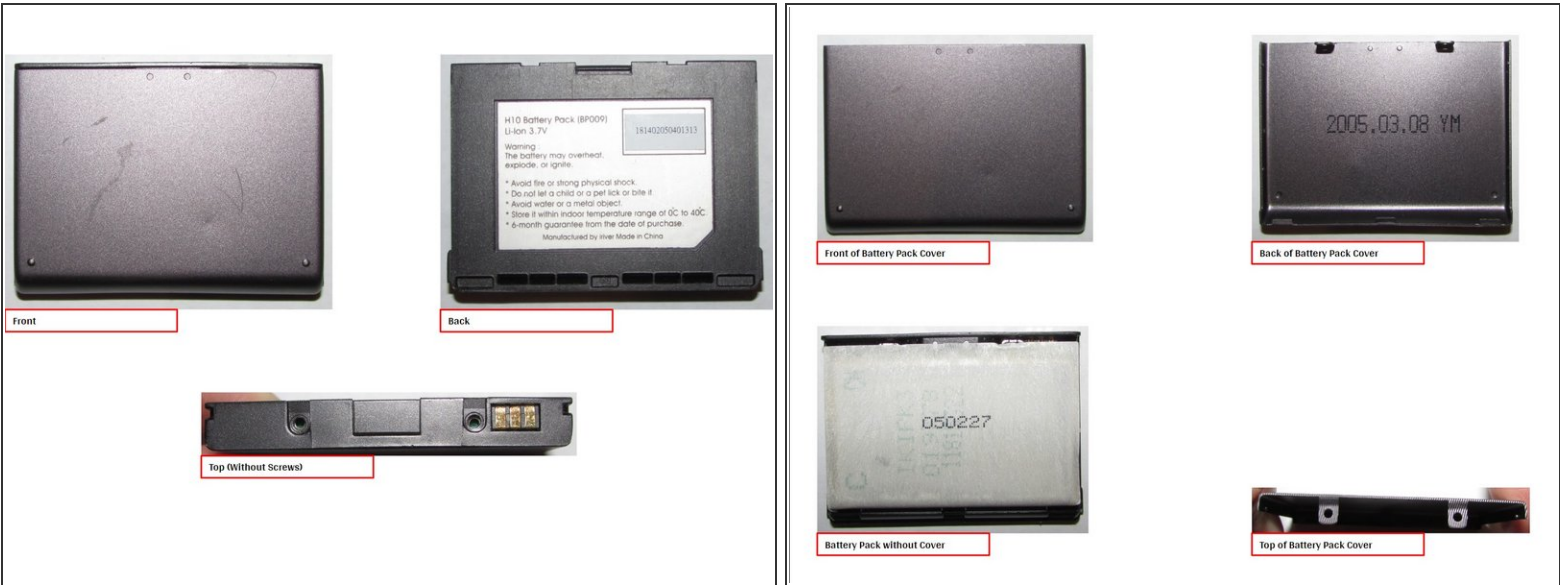
- Back Casing Annotations:
 - FM Radio Section

Step 8



- Back Casing Connector Board Chip Identifications:
 - NXP Semiconductors TEA5767HN Low-power FM stereo radio for handheld applications

Step 9



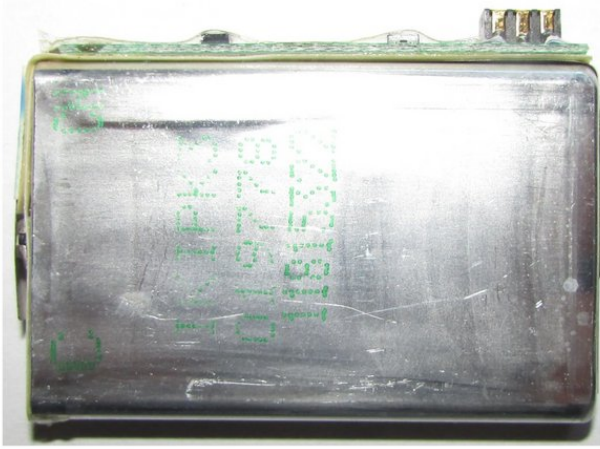
● Battery Pack:

Step 10



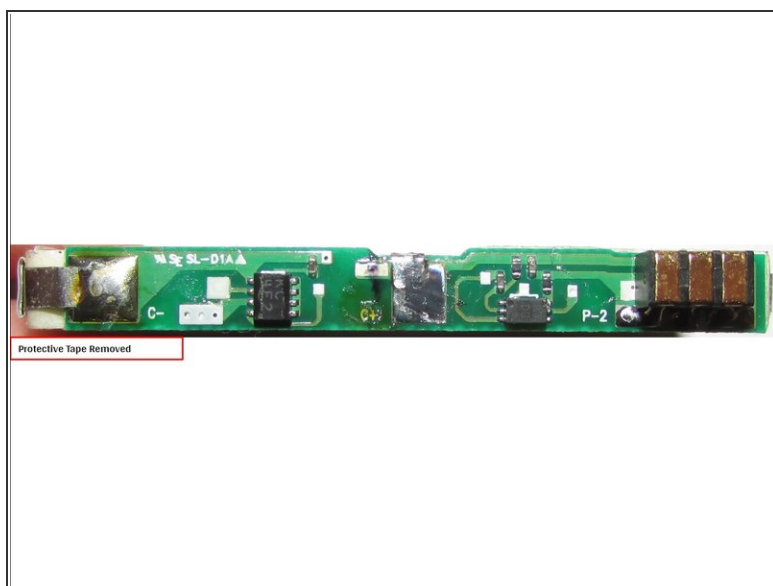
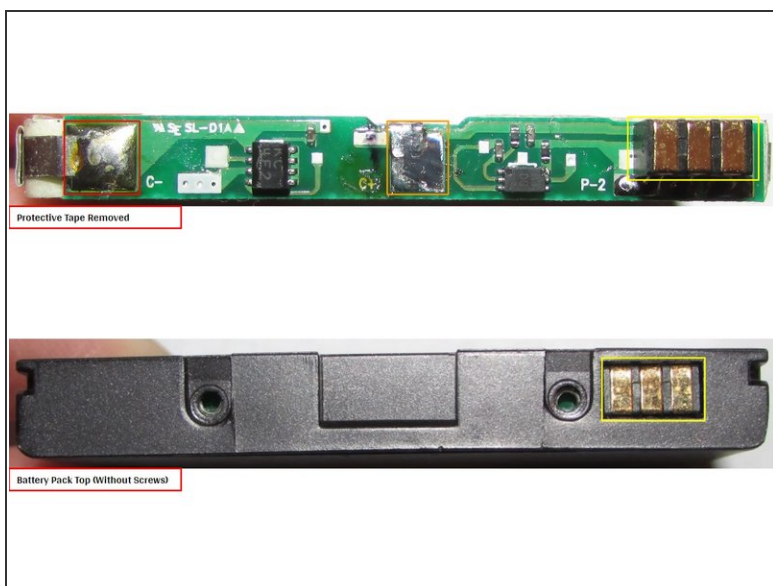
- Battery Pack without Cover Annotations:
 - Screw Hole Metal Pieces
 - Protection Circuit
 - Battery Cell

Step 11



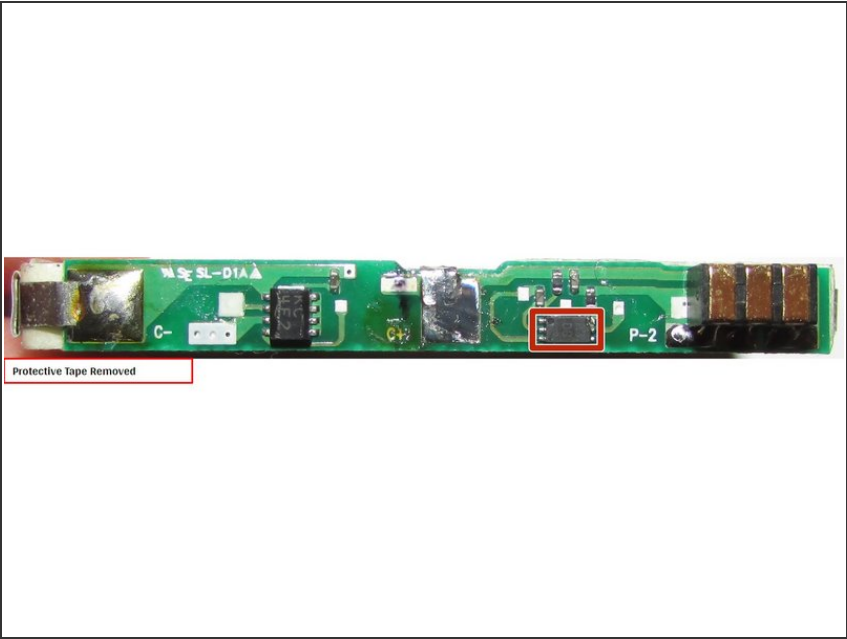
- Li-ion Battery Identification:
 - Unknown IKIPK3 019778
11815322 (?) 3.7V Lithium Ion
Battery

Step 12



- Battery Protection Circuit Annotations:
 - Battery Negative Contact
 - Battery Positive Contact
 - Battery Pack Contacts

Step 13



- Battery Protection Circuit Chip Identification:
 - Mitsumi MM3210 (?) Battery Protection

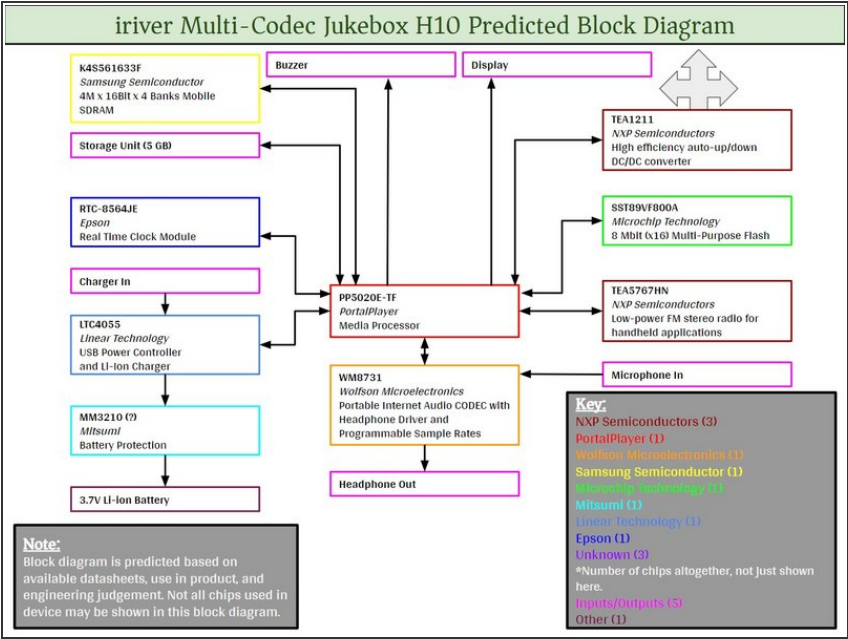
Step 14

iriver Multi-Codec Jukebox H10 Design Wins		
Purpose	Manufacturer	Chip Part Number
Main Processor	PortalPlayer	PP5020E-TF
Random Access Memory	Samsung Semiconductor	K4S561633F
Read Only Memory	Microchip Technology	SST89VF800A
Audio Codec	Wolfson Microelectronics	WM8731
FM Stereo Radio	NXP Semiconductors	TEA5767HN

iriver Multi-Codec Jukebox H10	Design Wins	Date Disassembled: Unknown
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- Design wins for this device:

Step 15



- Predicted block diagram for this device: