



Au8502_MT USB TV Stick

Design Brief

1 Introduction

This design is to demo our AU8502 chip. It supports the ATSC, NTSC, Composite, S-video, Audio input. It is 2-boards design in order to get a smaller form factor. AU8502 chip working at 1.4V low voltage.

2 Hardware Configuration

2.1 Major Chip Set:

| No. | Function | Name/Module | Manufactory/Data Sheet | Provider | Remark |
|-----|------------------------|--------------|---|-----------|--------|
| 1 | ATSC/NTSC etc. Decoder | AU8502, 1.4V | Auvitek/ \zeus\marketing\data sheet\ | Auvitek. | |
| 2 | Microtune Tuner | MT2130 | Microtune | Microtune | |
| 3 | Regulators | | | | |
| 4 | AC'97 | AD1881 | ADI | ADI | |
| 5 | EEPROM | AT93C46 | ATMEL | ATMEL | |

2.2 Functions List:

| No. | Function | Details | Remark |
|-----|-----------------------------|---|--------|
| 1 | Tuner Setting | MT2130 | |
| 2 | ATSC Decoder | | |
| 3 | NTSC Decoder | | |
| 4 | Composite Input | | |
| 5 | S-video Input | | |
| 6 | External Stereo Audio Input | AD1881 AC'97 decoder CD-in input | |
| 7 | ATV Audio Decoder | AU8502 PWM output to AD1881 AC'97 Line-in input | |
| 8 | Remote Controller | MCU decoder, IR sensor on board | |
| 9 | Customer ID | 3-Wire EEPROM on board | |
| 10 | Power indicator | LED on board to indicate the power status | |

3 Hardware Support

| No. | Items | Version No. | Remark |
|-----|-------------|-------------|--------|
| 1 | Version No. | Ver. 2.00 | |
| 2 | BOM | Ver. 2.00 | |
| 3 | Schematic | Ver. 2.00 | |
| 4 | GBR | Ver. 2.00 | |
| 5 | PCB | Ver. 2.00 | |

4 Software Support

| No. | Software Support | Version No. | Remark |
|-----|------------------|-------------|--------|
| 1 | Driver version | Ver. 1.00 | |
| 2 | I2C Controller | NA | |