Rafael TV display V59 - LLV56 board kit Projector

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V56 Universal LCD TV Controller Driver Board PC/VGA/HDMI/USB Interface

 Firmware!!!

 Description:

Model: LLV56

Scheme of the chip: TSUMV56 (V56 chip is a chip upgrade based on V59,v59 chip was discontinued)

Input Interface: PC / HDMI / TV / USB multimedia playing

Voltage: Single 12 V

Screen interface: LVDS Single 6 / 8 , Double 6 / 8

Screen voltage: 3.3V / 5V / 12V

Resolution: Support high screen 1920 * 1080, 15-42 inch LVDS screen

Burning method: to record the screen program in the USB flash disk, USB flash disk inserted into board, plug in the keypad, electricity; About after a few seconds, press the keypad lights start alternating red and green flash, flash lights began to write programs (please do not power), light in the slow flash first, after a slow flash flash, will speed up the quick flash, long after the last until the lights stop flashing light is the program written, electricity burn with USB flash disk to complete the program.

 Not only USB interface can be used to upgrade programs, but also can use to play video, basically formats are supported. You can also set a boot display pictures or LOGO

 Notice:

 1. The power requirement of 12V4A
 2. Screen voltage jump line according to the working voltage of screen jump to the corresponding position
 3. Use to adapt to the board of general screen line

4. The screen line not to reverse and dislocation

Programming:

1. The screen of the program is copied(.bin file) to the usb drive.
2. Insert USB Flash disk to the USB port on the board
3. Connected to the keypad, electricity again, until you see by the indicator lights on the keypad after flashing in red and green, until after the indicator light flashing, unplug the power, then pull out USB Flash disk, afresh power on.(Note that write programs do not power outages, crashing won't be able to use)

Package included:

1 x V56 Controller Board
1 x remote control

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LCD TV Board
http://www.vantron.net/Products/V56_V59_LCD_TV_Controller_Board%20_Model_LA.MV56U.A_with_USB_Player_TSUMV56RUU-Z1.html

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V56/V59 LCD TV Controller Board Model LA.MV56U.A with USB Player TSUMV56RUU-Z1

V56/V59 LCD TV Controller Board Model LA.MV56U.A with USB Player TSUMV56RUU-Z1

Information

1. General Description(??)

LA.MV56U.A is a flat panel TV control board designed for Asia?Pacific market, the board has excellent and mature performance . LA.MV56U.A can support LCD and LED panel, the maximum resolution supported is 1920x1080. It can drive a LCD or LED panel smaller than 26' to get a cost?effective and high performance and popular flat panel analog TV set.

LA.MV56U.A can support the port including, DC, VGA, HDMI, AV IN, PC AUDIO, EARPHONE, USB, RF. It's very easy to upgrade software by a USB disk for LA.MV56U.A LA.MV56U.A

2. Product Photograph

3. Product Features

Chipset

(???)

TSUMV56RUU?Z1

Target Market

(????)

Asia?Pacific (??)

OSD Language

(OSD ??)

S. Chinese(????), T.Chinese(????),English(??),Arab(????),

Uighur(????), German(??),French(??),Spanish(????),…

Panel

(?)

Panel Type

(???)

LCD/LED

Panel Interface

(????)

Single/Double 8bit LVDS

(?/? 8bit LVDS)

Max Resolution

(?????)

1920x1080

TV INPUT

(????)

TV

Receive Range

(????)

48.25MHz – 863.25MHz

Input Impedance

(????)

75?

Color System

(????)

PAL/SECAM/NTSC

Sound System

(????)

B/G, D/K, I, M/N

Channels

(????)

200

TELETEXT

V56: 1000 Pages(?)

VIDEO INPUT

(????)

PC

Format

(??)

Max Resolution

(????) 1920×1080@60Hz

AV

Color System

(????)

PAL/NTSC/SECAM

Video Level

(??????)

1.0Vp?p±5%

HDMI, YPbPr

480i, 480p, 576i, 576p, 720p, 1080i, 1080p

Audio Input

(????)

PC

Input Level (????)

0.2~2.0 VRMS

AV

Input Level (????)

0.2~2.0 VRMS

Audio Output (????)

Frequency Response (????)

100Hz~15K Hz @±3dB(1KHz, ?12dB reference signal)

Max Output Power

(??????)

2x2W(4?) THD+N<10%@1KHz

Power (??)

Power Supply

(????)

12V

Panel Power

(????)

3.3V,5V,12V

Power Management

(????)

Standby Power Consumption <0.3W(Board Only)

(???????? < 0.3W)

Comb Filter

(?????)

3D

De interlace

(?????)

3D

TSUMV56 USB MULTIMEDIA FORMAT (TSUMV56 USB ???????????)

Media

(??)

File Ext. (???)

Codec(????)

Remark(??)

Video(??)

Audio(??)

Movie

.avi

MJPEG

MP3, WMA, AAC, MP2,

Max Resolution And Frame Rate:

640×480@30fps

Max Data Rate: 10 Mbps

Xvid,MPEG?2,MPEG?4, DivX,H.264

.mp4

MPEG?2, MPEG?4, DivX,H.264

PCM, AC3

1920×1080@30fps

Max Data Rate: 20 Mbps

.ts/

.trp

MPEG?2,H.264

.mkv/

.mov

MPEG?4, H.264

.mpg

MPEG?1, MPEG?2

.dat

MPEG?1

MP2

Max Resolution:352×288 Max Data Rate: 20 Mbps

.ts/

.vob

MPEG?2

Max Resolution:720×576 Max Data Rate: 20 Mbps

.rm/

.rmvb

V8, RV9, RV10

COOK

Max Resolution And Frame Rate:

1280×720@30fps

Max Data Rate:10 Mbps

Music

.mp3

??

MP3

Sample Rate: 32K~48KHz Bit Rate: 128K~320Kbps Channel: Mono/Stereo

.wma

??

WMA

Bit Rate: 8K~48Kbps Sample Rate:128K~320Kbps Channel: Mono/Stereo

.m4a/

.aac

??

AAC

Sample Rate: 8K~48KHz Bit Rate: 128K~442Kbps Channel: Mono/Stereo

Photo

.jpg/

.jpeg

Progressive JPEG

Max Resolution: 1024×768

Baseline JPEG

Max Resolution: 15360×8640

.bmp

??

Max Resolution: 9600×6400

.png

Non?Interlaced

Max Resolution: 9600×6400

Interlaced

Max Resolution: 1200×800

Text

.txt

ANSI/UNICODE GB/UTF8

File Size?Max 1MB

File system: Hi Speed FS, FAT32, FAT16, NTFS(NTFS compressed file is not supported).

?????Hi Speed FS, FAT32, FAT16, NTFS (??? NTFS ?????)

Note:

1. Licenses involved in specifications above are supposed to be obtained by customers themselves, eg: AC3

?DivX ?RM?RMVB?WMA?AAC.

1.?????? License ???????????

2. MP4 cannot support GMC.

2. MP4 ??? GMC?

LCD TV Board
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LA.MV9.S LCD LED Controller Board Chipset TSUMV59XU

LA.MV9.S LCD LED Controller Board Chipset TSUMV59XU

Information

LA.MV9.S LCD LED Controller Board Chipset TSUMV59XU

Part Number : R820T2

Function : High Performance Low Power Advanced Digital TV Silicon Tuner

Package : QFN 24 Type

Manufacturers : Rafael Micro

Image :

Description :

The R820T2 is a highly integrated silicon tuner that builds in low noise amplifier (LNA), mixer, fractional PLL, VGA, voltage regulator and tracking filter, eliminating the need for external SAW filters, LNA, balun, and LDO. Thanks the LNA architecture, R820T offers the lowest cost and high performance solution for digital TV application. On-chip LDO, high performance LNA, and small package enable R820T the perfect solution for both cost and font factor sensitive applications.

Pinout :

Features :

Support all digital TV standards: DVB-T, ATSC, DTMB and ISDB-T.
Lowest BOM cost WITHOUT external SAW filters, LNA, balun, LDO, and adjustable parts.
Low cost Single-In Digital TV Application
Compliant with EN 300 744, Nordig 2.2, D-BOOK 7.0, ARIB B21, ABNT 15604, ATSC A74 and
 GB20600-2006
Compliant with EN-55020, EN55013 and FCC
Ultra low power consumption < 178mA
Single power supply 3.3V
2-wired I2C interface

R820T2 Datasheet PDF Download

 Rafael Sanzio da Urbino (or Raffaello / Raphael) and Da Vinci, Michelangelo

 During the revival of the three painters, style influence far behind. We are a radio chip design company, working with
the painter

 Is a creative industry, and the constant pursuit of innovation and breakthrough, and Raphael full name Rafael Sanzio
da Urbino and the company focused

 RadioFrequency (RFFrequency, RF) has a common abbreviation letters, so in the name of Rafael Micro.

 R afael Micro was founded in November 2006 and is comprised of senior RF professionals from the semiconductor
industry.

 RF chip design of the global leader, is also the only cross-strait has the ability to cross the high-end home appliances
radio frequency

 Chip supplier. Accumulated more than 200 million shipments not only to obtain customer trust, but also for the product
reliability and the most stringent

 Inspection and certification. Macro Microelectronics All RF chip products have their own patented technology and
intellectual property. Which silicon

 Tuner to own patented FM technology, filtering technology and advanced broadband RF circuit technology , the
development of the competitive advantage is not easy to go beyond, but also Taiwan's IC design industry can only
provide the TV and the box used by the high-end RF chip Company, shipments beyond Japan and South Korea wafer
design plant

 Business squeeze into the world's top three silicon crystal tuner chip suppliers, the product has successfully entered
Europe, the United States, China, Japan, the major supply chain system.

 Our belief is continuous technological innovation, and the use of innovative technology to bring human high-
performance, high-quality RF chip solutions.