



# 深圳市鼎科实业有限公司

Shenzhen TOP-TECH Industrial CO.,LTD

Multi-Purpose LED TV

Control Board Specification

Model: P75-2841V6.0

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|                              |                |                            |                |

## **GENERAL DESCRIPTION ( 整体概述 )**

P75-2841V6.0 is a multi-in-one driver board, integrate power supply, LED driver and TV board. The RF Can receive the ATV and DVB-C/T/T2/S2/S2X television signals.It can be used in intelligent network TV and applies to the market in Asia-Pacific and Europe. it supports full HD LCD panel.

P75-2841V6.0 是一款集成电源、led恒流、TV一体的驱动板，可接收ATV电视信号和DVB-C/T/T2/S2/S2X电视信号，可用于智能网络电视的多合一驱动板，适用于亚太和欧洲市场。可支持全高清液晶显示屏幕。

P75-2841V6.0 Supports RJ45 network signal,USB 2.0, AV IN,YPBPR,HDMI 1.4 and TV including ATV and DTV.In the meantime, it can sustain WIFI , Blue Tooth access and Coaxial/Optical Fiber and Earphone output.

P75-2841V6.0 支持 RJ45 网络信号，USB2.0，AV IN,YPBPR,HDMI 1.4 以及模拟电视，数字电视,也支持 WIFI，蓝牙接入以及 Coaxial 和 Earphone 输出。

P75-2841V6.0 Based on the Android 7.1 provides ARM Cortex A53 Four Core CPU with frequency of 1.5GHz and GPU with Multi-core Mali -470MP2.It contains 1G memory and 4 GB or 8G storage space.

P75-2841V6.0基于 Android 7.1 操作系统 搭载主频为 1.5GHz 的四核 A53 CPU 和多核 Mali-470MP2 GPU，内存 1G,4G 或者 8G 存储空间。

P75-2841V6.0 Built full-featured browser and support for HTML5 web page format, providing fun of browsing web and watching video at random. It also support surfing net with wireless mouse and keyboard.

P75-2841V6.0 内置全功能浏览器，支持 HTML5 网页格式，可任意浏览网页和网页视频点播，体验播放流畅的高清视频。搭配无线鼠标和无线键盘，可轻松畅游网络。

The power part of P75-2841V6.0 is an energy-efficient ultrathin switching power supply unit, with backlight power under 45W. It fits to 26" to 49" LED backlight TFT panel.

P75-2841V6.0 的电源部分是一种高效超薄开关电源装置，背光功率小于 45W。它适用于 26" 到 49" LED 背光液晶屏。

Note1:Due to the requirements of the harmonic current in electromagnetic compatibility (IEC61000-3-2),the rated input power should be less than 75W when the TV set is under the rated output voltage.

备注 1：因电磁兼容中 ( IEC61000-3-2 ) 关于谐波电流的要求,额定电压输入时整机的输出功率要限制在 75W 以内。

## **PRODUCTS FEATURES ( 产品特性 )**

Detailed feature. ( 详细特性 )

|                          |                                                                                 |                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| MARKET AREA<br>( 市场区域 )  | Asia-Pacific and Europe ( 亚太和欧洲 )                                               |                                                                                                     |
| OSD LANGUAGE<br>( 菜单语言 ) | English,(French,Spanish,Portuguese,Russian) (Option )<br>( 英语，法语，西班牙语，葡萄牙语，俄语 ) |                                                                                                     |
| CHIPSET<br>( 芯片 )        | RTD2841PSA                                                                      |                                                                                                     |
| PANEL<br>( 屏 )           | Panel type<br>( 屏类型 )                                                           | TFT LCD with LED Backlight                                                                          |
|                          | Interface<br>( 接口 )                                                             | Support up to 8-bit dual LVDS ( 30PIN/2.0 jack ) FULL HD panel interface ( 最高可支持 8 位双 LVDS 全高清屏接口 ) |
|                          | Resolution<br>( 分辨率 )                                                           | 1920×1080                                                                                           |
| POWER<br>( 功率 )          | ACInput<br>Requiremen<br>( 交流输入要求 )                                             | 90 ~ 264V                                                                                           |

|                       |                        |                                                      |                                  |
|-----------------------|------------------------|------------------------------------------------------|----------------------------------|
|                       | To Panel<br>( 驱屏电压 )   | 12V                                                  |                                  |
|                       | Management<br>( 电源管理 ) | Low power consumable mode: standby≤<br>0.5W ( 待机功耗 ) |                                  |
| VIDEO INPUT<br>(视频输入) | TV ( analog )          | VIDEO SYSTEM<br>( 视频制式 )                             | NTSC,PAL                         |
|                       |                        | SOUND SYSTEM<br>( 声音制式 )                             | M                                |
|                       |                        | RECEIVE<br>CHANNEL<br>( 可接收频道 )                      | ATV:200                          |
|                       | DVB-C                  | MODULATION<br>( 调制 )                                 | 16QAM,32QAM,64QAM,128QAM, 256QAM |
|                       |                        | VIDEO SYSTEM<br>( 视频制式 )                             | MPEG-2MP@ML,MPEG-2 MP@HL,H.264   |
|                       |                        | AUDIO SYSTEM<br>( 音频制式 )                             | MPEG-1,MPEG-2(Layer I /II)       |
|                       |                        | RECEIVE<br>CHANNEL<br>( 可接收频道 )                      | DTV:500                          |
|                       | DVB-T                  | MODULATION<br>( 调制 )                                 | COFDM 2K/8K, QPSK,16QAM, 64QAM   |
|                       |                        | VIDEO SYSTEM<br>( 视频制式 )                             | MPEG-2 MP@ML,H.264               |
|                       |                        | AUDIO SYSTEM                                         | MPEG-1,                          |

|  |            |                              |                                                                                                                                                                                                                   |
|--|------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |            | ( 音频制式 )                     | MPEG-2(Layer I /II)                                                                                                                                                                                               |
|  |            |                              | DD/DD+(Option& need license)                                                                                                                                                                                      |
|  |            | RECEIVE CHANNEL<br>( 可接收频道 ) | DVB-T:500                                                                                                                                                                                                         |
|  | DVB-T2     | MODULATION<br>( 调制 )         | Compliant with EN302755V1.3.1<br>COFDM: 1K to 32k;<br>code rate:1/3,2/5;<br>QPSK:16QAM, 64QAM,256QAM<br>Bandwidth:6,7,8Mhz;<br>Guard Interval:1/128--1/4;<br>Code rate:1/2,3/5,2/3,3/4,4/5,5/6<br>SPP: PP1 to PP8 |
|  |            | VIDEO SYSTEM<br>( 视频制式 )     | MPEG-2<br>MP@ML,H.264/H.265                                                                                                                                                                                       |
|  |            | AUDIO SYSTEM<br>( 音频制式 )     | AC-3,MPEG1/2 Layer I and II                                                                                                                                                                                       |
|  |            | RECEIVE CHANNEL<br>( 可接收频道 ) | DTV:500                                                                                                                                                                                                           |
|  |            | MODULATION                   | COFDM 2K/8K,                                                                                                                                                                                                      |
|  | DVB-S2/S2X |                              |                                                                                                                                                                                                                   |

|                           |                         |                                              |                                       |
|---------------------------|-------------------------|----------------------------------------------|---------------------------------------|
|                           |                         | ( 调制 )                                       | QPSK,8PSK                             |
|                           |                         | LNB Pwer                                     | Auto/13V/18V/OFF<br>Out put 500mA@Max |
|                           |                         | LNB Switch<br>Control                        | 22KHz                                 |
|                           |                         | DiSEqC Version                               | 1.0 / 1.1/1.2/1.3<br>compatible       |
|                           |                         | VIDEO SYSTEM<br>( 视频制式 )                     | MPEG-2<br>MP@ML,H.264,H.265           |
|                           |                         | AUDIO SYSTEM<br>( 音频制式 )                     | MPEG-1,<br>MPEG-2(Layer I /II)        |
|                           |                         |                                              | DD/DD+(Option&<br>need license)       |
|                           |                         | RECEIVE<br>CHANNEL<br>( 可接收频道 )              | DVB-S2:4000                           |
|                           | CVBS                    | 1.0Vp-p +/-5%                                |                                       |
|                           | YPbPr / YCbCr           | 480i、480p、576i、576p、720p、1080i、<br>1080p     |                                       |
|                           | HDMI                    | 480i、480p、576i、576p、720p、1080i、<br>1080p     |                                       |
| NETWORK INPUT<br>( 网络输入 ) | Audio System            | DD/DD+(Option & need license)                |                                       |
|                           | AV/YPBPR Audio<br>Input | RCA terminal white color, red color          |                                       |
|                           | WIFI                    | Communications Standard:<br>IEEE 802.11b/g/n |                                       |

|                                           |                              |                                                  |
|-------------------------------------------|------------------------------|--------------------------------------------------|
|                                           | Max data rate                | 150Mbps                                          |
|                                           | Operating Frequency          | 2.4~5GHZ                                         |
|                                           | RJ45 网络                      | 10/100M auto-identification and DHCP             |
|                                           | Blue Tooth                   | Bluetooth v2.1 +EDR,v3.0,and v4.0+BLE ( option ) |
| AUDIO OUTPUT<br>( 音频输出 )                  | Earphone Output              | 1 Earphone terminal black color                  |
|                                           | Speaker                      | 2*8W@8Ω(SupplyVoltage:12V, Audio input:0.5Vrms ) |
| WEAK SIGNAL<br>ENHANCEMENT<br>( 弱信号增强 )   | YES                          |                                                  |
| NOISE<br>REDUCTION( 降噪 )                  | 3D                           |                                                  |
| A2,NICAM<br>(Option),TELETEXT<br>(Option) | YES                          |                                                  |
| KEY FUNCTIONS<br>( 按键功能 )                 | C+, C-, M, S, V+, V-, ON/OFF |                                                  |
| COMB FILTER<br>( 梳状滤波功能 )                 | 3D                           |                                                  |
| DE-INTERLACE<br>( 解交织功能 )                 | 3D                           |                                                  |
| EXPANSION<br>FUNCTION<br>( 扩展功能 )         | WIFI                         |                                                  |



|                      |              |                                                                                |
|----------------------|--------------|--------------------------------------------------------------------------------|
| Terminal<br>(input)  | TV INPUT     | 1F TYPE 75 $\Omega$ ( 1F TYPE 型高频头 ) and 1 IEC 75 $\Omega$ ( 1 IEC 型高频头 )      |
|                      | HDMI Input   | 3 HDMI terminal. ,HDMI3 With MHL<br>( 3 HDMI 端子,HDMI3 带 MHL )                  |
|                      | USB Input    | 2×USB2.0 (2 个 USB2.0 输入端子 )                                                    |
|                      | YPbPr Input  | 1MINI Earphone terminal black color<br>( 1MINI 黑色端子 )                          |
|                      | RJ45 Input   | 1 RJ45 terminal<br>(1 个 RJ45 输入端口 )                                            |
|                      | AV Input     | 1 RCA terminal yellow color,white color,red color ( 1 RCA 端子 , 黄色 , 白色 , 红色。 ) |
|                      | PC AUDIO     | 1 Earphone terminal black color<br>( 1 耳机端子 , 黑色 )                             |
| Terminal<br>(output) | To Panel     | Double 8bit LVDS 30PIN ( 双 8bit LVDS 30PIN )                                   |
|                      | SPDIF Out    | Coaxial/optical fiber ( 同轴或者光纤 )                                               |
|                      | Earphone Out | 1 Earphone terminal black color<br>( 1 耳机端子 , 黑色 )                             |

## USB MULTIMEDIA PLAYBACK FORMAT ( USB 多媒体支持格式 )

| 1. Video Decoder Support List (for UHD) |               |            |            |                            |              |    |
|-----------------------------------------|---------------|------------|------------|----------------------------|--------------|----|
| P/N                                     | Video Decoder | Resolution | Max<br>fps | Max<br>bitrate<br>( Mbps ) | Bit<br>depth | 支持 |
| DivX                                    | Divx 3.11     | 1920x1080  | 60         | 20M                        | 8            | X  |
|                                         | Divx 4.x      | 1920x1080  | 60         | 20M                        | 8            | X  |

|            |                                        |           |    |      |        |   |
|------------|----------------------------------------|-----------|----|------|--------|---|
|            | Divx 5.1                               | 1920x1080 | 60 | 50M  | 8      | X |
|            | Divx 6                                 | 1920x1080 | 60 | 50M  | 8      | X |
| MPEG 1/2/4 | MPEG1                                  | 1920x1080 | 60 | 50M  | 8      | V |
|            | MPEG2 MP@HL                            | 1920x1080 | 60 | 100M | 8      | V |
|            | MPEG-4 SP@HL<br>3.0                    | 1920x1080 | 60 | 100M | 8      | V |
|            | MPEG-4<br>ASP@HL 4.0                   | 1920x1080 | 60 | 100M | 8      | V |
| Xvid       | XviD                                   | 1920x1080 | 60 | 50M  | 8      | V |
| H.264      | H.264 BP LV 4.0                        | 1920x1080 | 30 | 50M  | 8      | V |
|            | H.264 MP LV<br>4.0                     | 2048x1080 | 60 | 160M | 8      | V |
|            | H.264 HP LV 4.0                        | 2048x1080 | 60 | 160M | 8      | V |
|            | H.264 MP LV<br>5.1                     | 4096x2160 | 30 | 250M | 8      | V |
|            | H.264 HP LV 5.1                        | 4096x2160 | 30 | 250M | 8      | V |
| H.265      | H.265 Main<br>profile @ Level<br>4.1   | 2048x1080 | 60 | 160M | 8      | V |
|            | H.265 Main10<br>profile @ Level<br>4.1 | 2048x1080 | 60 | 160M | 8/9/10 | V |
|            | H.265 Main<br>profile @ Level<br>5.0   | 4096x2160 | 30 | 250M | 8      | V |
|            | H.265 Main10                           | 4096x2160 | 30 | 250M | 8/9/10 | V |



|             |                                  |           |    |      |      |   |
|-------------|----------------------------------|-----------|----|------|------|---|
|             | profile @ Level<br>5.0           |           |    |      |      |   |
| Generic     | Motion JPEG                      | 1920x1080 | 60 | 60M  | 8    | V |
| WMV         | Window Media<br>Video v9         | 1920x1080 | 60 | 100M | 8    | V |
| VC1         | VC-1<br>(SP/MP/AP)               | 1920x1080 | 60 | 100M | 8    | V |
| VP8         | VP8                              | 1920x1080 | 60 | 20M  | 8    | V |
| VP9         | VP9                              | 4096x2160 | 60 | 40M  | 8/10 | V |
| RM          | RV 8 (rv30)                      | 1920x1080 | 60 | 20M  | 8    | V |
|             | RV 9 (rv40)                      | 1920x1080 | 60 | 50M  | 8    | V |
|             | RV 10 (rv40)                     | 1920x1080 | 60 | 50M  | 8    | V |
| AVS         | AVS Jizhun<br>Profile LV 6.0     | 1920x1080 | 60 | 50M  | 8    | V |
|             | AVS Plus                         | 1920x1080 | 60 | 50M  | 8    | V |
| Sorenson    | Sorenson H.263                   | 1920x1080 | 30 | 20M  | 8    | V |
| Motion JPEG | M-JPEG                           | 1920x1080 | 60 | 60M  | 8    | V |
| H.263       | H.263<br>V_MS/FW/FOU<br>RCC/H263 | 1920x1080 | 60 | 20M  | 8    | V |

| 2. Audio Decoder list |                                          |     |
|-----------------------|------------------------------------------|-----|
| PN                    | Audio Decoder<br>(For MM Video)          | 支持  |
| PCM                   | wav: PCM / ADPCM / A-law PCM / u-law PCM | Yes |
|                       | ADPCM IMA4                               | Yes |

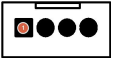
|                   |                                                    |     |
|-------------------|----------------------------------------------------|-----|
| AMR               | AMR-NB, AMR-WB/AMR-WB+                             | Yes |
| LPCM              | DVD LPCM                                           | Yes |
| RA                | cook: COOK (RealAudio6)                            | Yes |
| MPEG 1/2/4        | MPEG1 Layer1/2                                     | Yes |
|                   | MPEG1 Layer1/2 (MPEG2)                             | Yes |
|                   | MP3 (MPEG1 Layer3)                                 | Yes |
| AAC               | MPEG2 AAC (AAC-LC)                                 | Yes |
|                   | MPEG4 AAC-LC                                       | Yes |
|                   | MPEG4 HE-AAC v1/v2                                 | Yes |
|                   | raac: MPEG4 AAC-LC (RealAudio9)                    | Yes |
|                   | racp: MPEG4 HE-AAC v2 (RealAudio10)                | Yes |
| WMA               | WMA v7                                             | Yes |
|                   | WMA v8                                             | Yes |
|                   | WMA v9                                             | Yes |
|                   | WMA Pro                                            | No  |
| Dolby AC3 (DD)    | AC3                                                | Yes |
|                   | Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD | Yes |
|                   | dnet: AC3 (RealAudio3)                             | Yes |
| Dolby EAC3 (DDCO) | Dolby Digital Plus                                 | Yes |
|                   | Dolby Digital Plus, Dolby lossless                 | Yes |
| Dolby MS11        | No-HEAAC                                           | Yes |
|                   | recommand to apply MS12 config-D 's<br>No-HEAAC    | Yes |
| Dolby MS12        | Config-D                                           | Yes |
|                   | Config-LC                                          | Yes |

|                   |                         |             |     |
|-------------------|-------------------------|-------------|-----|
| Dolby<br>ATMOS    | Ver-2.0                 |             | No  |
|                   |                         |             |     |
| DTS               | DTS                     |             | Yes |
|                   | M6                      |             | Yes |
|                   | DTS, DTS HD             |             | Yes |
|                   | DTS, DTS HD, DTS HD LBR |             | Yes |
|                   | Virtual-X               |             | Yes |
| DRA               | DRA                     |             | Yes |
| FLAC              | FLAC                    |             | Yes |
|                   | FLAC (96hz)             |             | Yes |
| VORBIS            | VORBIS                  |             | Yes |
| 3. Image Decoder  |                         |             |     |
| File<br>Extension | Container               | Data Type   | 支持  |
| *.jpg             | JPEG                    | baseline    | Yes |
|                   |                         | progressive | Yes |
| *.bmp             | BMP                     |             | Yes |
| *.png             | PNG                     |             | Yes |
| *.gif             | GIF                     | static      | Yes |
|                   |                         | animation   | Yes |
| .mpo              | MPO                     | 3d          | Yes |
| .jps              | JPEG                    | 3d baseline | Yes |
| .pns              | PNG                     | 3d          | Yes |

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才可以使用上述 USB 功能。 )

## INTERFACE DEFINITION ( 接口定义 )



CN2 (14PIN/2.0mm) KEY & IR BOARD INTERFACE ( 按键和遥控接口 )

| NO.<br>( 管脚 ) | SYMBOL<br>( 板上丝印 ) | DESCRIPTION<br>( 描述 )       |
|---------------|--------------------|-----------------------------|
| 1             | GND                | Ground ( 地 )                |
| 2             | DF                 | +5V power supply ( +5V 供电 ) |
| 3             | EN                 | ON/OFF(开/关)                 |
| 4             | M                  | MENU Key ( 菜单 )             |
| 5             | V-                 | V- Key ( 音量- )              |
| 6             | V+                 | V+ Key ( 音量+ )              |
| 7             | C-                 | C- Key ( 频道- )              |
| 8             | C+                 | C+ Key ( 频道+ )              |
| 9             | S                  | Source ( 信号源 )              |
| 10            | GND                | Ground ( 地 )                |
| 11            | IR                 | Remote receiver ( 遥控信号输入端 ) |
| 12            | G                  | Green indicator(绿色指示器)      |
| 13            | R                  | Red indicator ( 红色指示器 )     |
| 14            | VCC_IR             | +5V power supply ( +5V 供电 ) |

# CN1 (30PIN/2.0mm)LVDS INTERFACE ( LVDS 屏接口 )

| NO.<br>( 管脚 ) | SYMBOL<br>( 板上丝印 ) | DESCRIPTION<br>( 描述 )                   |
|---------------|--------------------|-----------------------------------------|
| 1             | VCC                | Power for panel ( 驱屏电源 )                |
| 2             | VCC                | Power for panel ( 驱屏电源 )                |
| 3             | VCC                | Power for panel ( 驱屏电源 )                |
| 4             | GND                | Ground ( 地 )                            |
| 5             | GND                | Ground ( 地 )                            |
| 6             | NC                 | NC                                      |
| 7             | O0-                | LVDS ODD 0- Signal ( LVDS 奇数 0-信号 )     |
| 8             | O0+                | LVDS ODD 0+ Signal ( LVDS 奇数 0+信号 )     |
| 9             | O1-                | LVDS ODD 1- Signal ( LVDS 奇数 1-信号 )     |
| 10            | O1+                | LVDS ODD 1+ Signal ( LVDS 奇数 1+信号 )     |
| 11            | O2-                | LVDS ODD 2- Signal ( LVDS 奇数 2-信号 )     |
| 12            | O2+                | LVDS ODD 2+ Signal ( LVDS 奇数 2+信号 )     |
| 13            | GND                | Ground ( 地 )                            |
| 14            | GND                |                                         |
| 15            | OC-                | LVDS ODD Clock- Signal ( LVDS 奇数时钟-信号 ) |
| 16            | OC+                | LVDS ODD Clock+ Signal ( LVDS 奇数时钟+信号 ) |



|    |     |                                          |
|----|-----|------------------------------------------|
| 17 | O3- | LVDS ODD 3- Signal ( LVDS 奇数 3-信号 )      |
| 18 | O3+ | LVDS ODD 3+ Signal ( LVDS 奇数 3+信号 )      |
| 19 | E0- | LVDS EVEN 0- Signal ( LVDS 偶数 0-信号 )     |
| 20 | E0+ | LVDS EVEN 0+ Signal ( LVDS 偶数 0+信号 )     |
| 21 | E1- | LVDS EVEN 1- Signal ( LVDS 偶数 1-信号 )     |
| 22 | E1+ | LVDS EVEN 1+ Signal ( LVDS 偶数 1+信号 )     |
| 23 | E2- | LVDS EVEN 2- Signal ( LVDS 偶数 2-信号 )     |
| 24 | E2+ | LVDS EVEN 2+ Signal ( LVDS 偶数 2+信号 )     |
| 25 | GND | Ground ( 地 )                             |
| 26 | GND |                                          |
| 27 | EC- | LVDS EVEN Clock- Signal ( LVDS 偶数时钟-信号 ) |
| 28 | EC+ | LVDS EVEN Clock+ Signal ( LVDS 偶数时钟+信号 ) |
| 29 | E3- | LVDS EVEN 3- Signal ( LVDS 偶数 3-信号 )     |
| 30 | E3+ | LVDS EVEN 3+ Signal ( LVDS 偶数 3+信号 )     |

ACN1(4PIN/2.54mm) SPEAKER INTERFACE ( 喇叭 )

| NO.<br>( 管脚 ) | SYMBOL<br>( 板上丝印 ) | DESCRIPTION<br>( 描述 )                          |
|---------------|--------------------|------------------------------------------------|
| 1             | RP                 | Positive Right audio channel out ( 右声道音频输出正极 ) |
| 2             | RN                 | Negative Right audio channel out ( 右声道音频输出负极 ) |
| 3             | LN                 | Negative Left audio channel out ( 左声道音频输出负极 )  |
| 4             | LP                 | Positive Left audio channel out ( 左声道音频输出正极 )  |

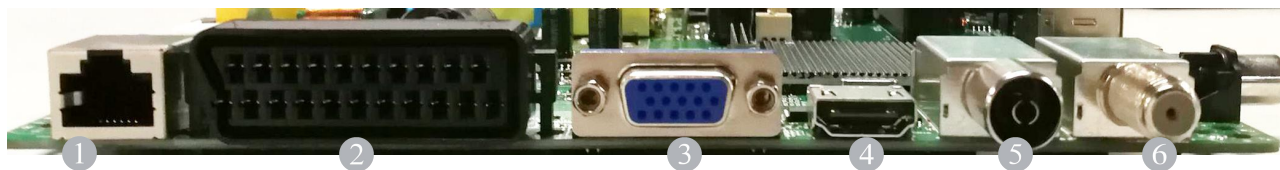
## JS1/JS2 (3PIN/2.0mm) LED OUTPUT INTERFACE ( LED 输出接口 )

| NO.<br>( 管脚 ) | SYMBOL<br>( 板上丝印 ) | DESCRIPTION<br>( 描述 ) |
|---------------|--------------------|-----------------------|
| 1             | LED+               | Backlight LED+ output |
| 2             | LED-               | Backlight LED- output |
| 3             | LED-               | Backlight LED- output |

## TERMINAL AND STRUCTURE DIAGRAM ( 端子与结构图 )

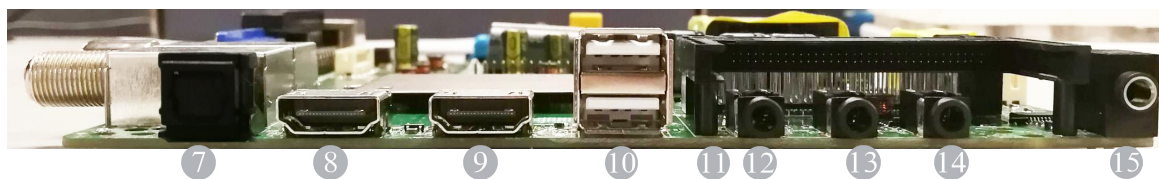
All of pictures below are only for reference. Please take the actual objects as a standard. ( 以下图片仅供参考,请以实物为准 )

Configure 1 : Front View Of P75-2841V6.0 ( 正视图 )



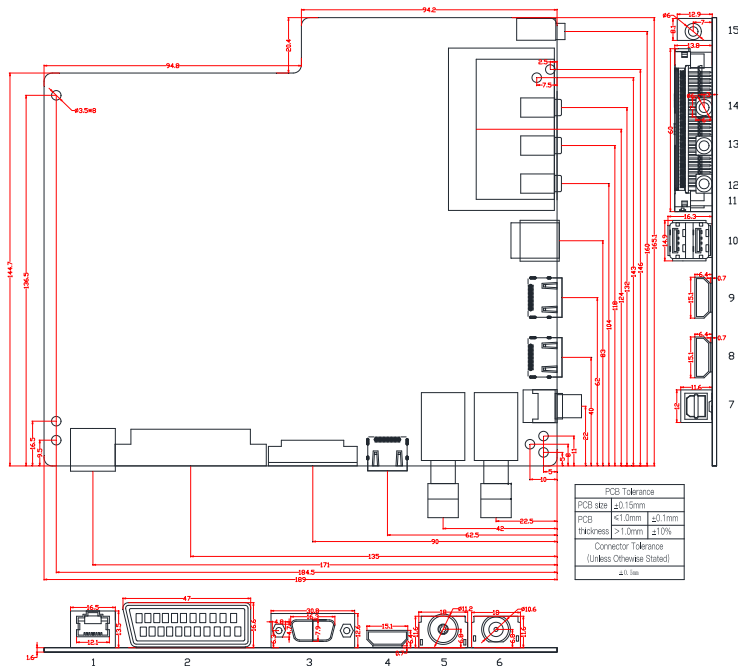
|      |       |     |      |       |        |
|------|-------|-----|------|-------|--------|
| 1    | 2     | 3   | 4    | 5     | 6      |
| RJ45 | SCART | VGA | HDMI | RF IN | LNB S2 |

Configure 1 : Side View Of P75-2841V6.0 ( 侧视图 )

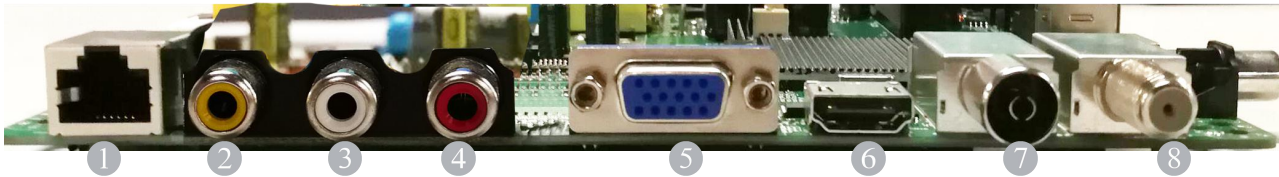


|         |      |      |     |    |               |            |             |          |
|---------|------|------|-----|----|---------------|------------|-------------|----------|
| 7       | 8    | 9    | 10  | 11 | 12            | 13         | 14          | 15       |
| OPTICAL | HDMI | HDMI | USB | CI | MINI<br>YPBPR | MINI<br>AV | PC<br>AUDIO | EARPHONE |

# CAD DIMENSIONS ( CAD 尺寸 )

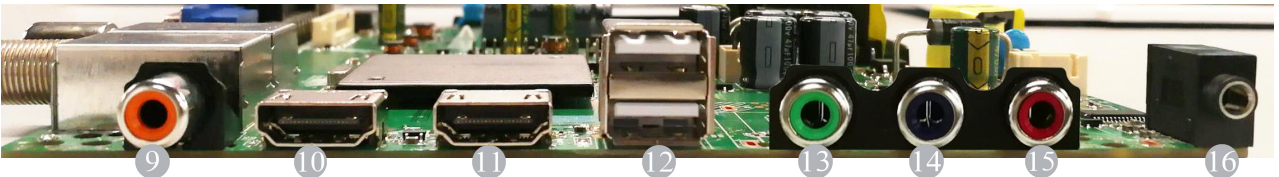


Configure 2 : Front View Of P75-2841V6.0 ( 正视图 )



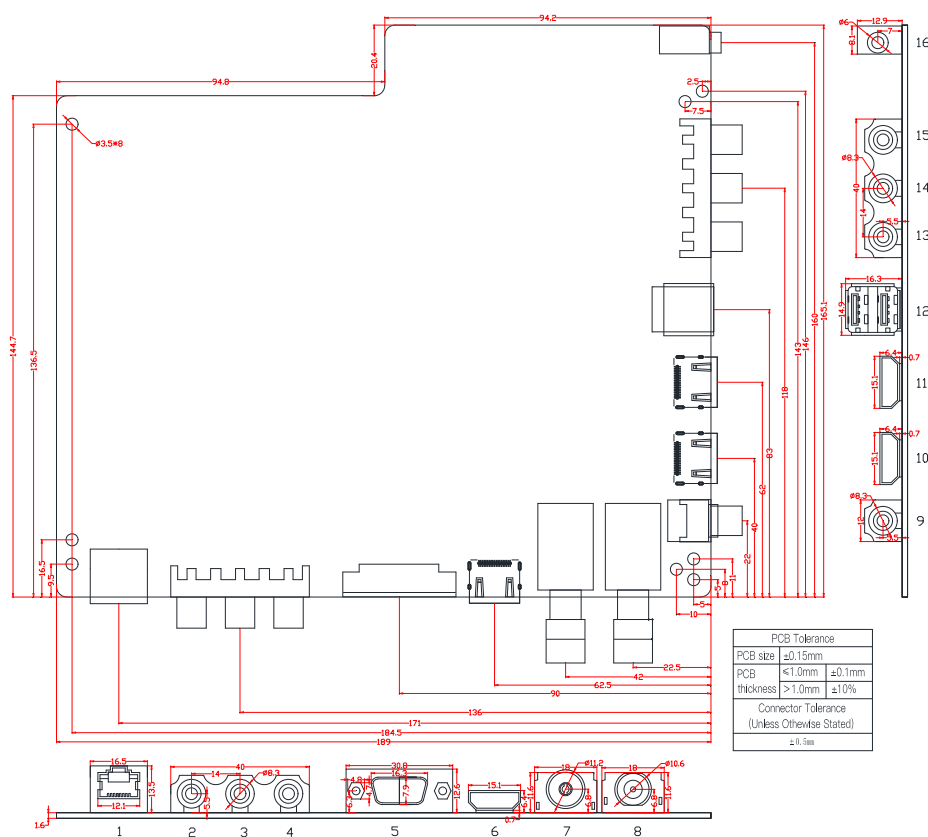
|      |       |         |         |     |      |       |        |
|------|-------|---------|---------|-----|------|-------|--------|
| 1    | 2     | 3       | 4       | 5   | 6    | 7     | 8      |
| RJ45 | AV IN | AV L IN | AV R IN | VGA | HDMI | RF IN | LNB S2 |

Configure 2 : Side View Of P75-2841V6.0 ( 侧视图 )



|         |      |      |     |      |       |       |          |
|---------|------|------|-----|------|-------|-------|----------|
| 9       | 10   | 11   | 12  | 13   | 14    | 15    | 16       |
| COAXIAL | HDMI | HDMI | USB | Y IN | PB IN | PR IN | EARPHONE |

## CAD DIMENSIONS ( CAD 尺寸 )



## ELECTRICAL CHARACTERISTICS ( 电气特性 )

### ◆ Input Electrical Specifications ( 输入特性 )

| Input<br>( 输入 )   | Minimum<br>( 最小值 ) | Nominal<br>( 标称 ) | Rating<br>( 额定值 ) | Maximum<br>( 最大值 ) | Unit<br>( 单位 ) |
|-------------------|--------------------|-------------------|-------------------|--------------------|----------------|
| Voltage<br>( 电压 ) | 90                 | 100~240           | 115/230           | 264                | Vac            |
| Current<br>( 电流 ) | ---                | ---               | ---               | 1.8                | A              |

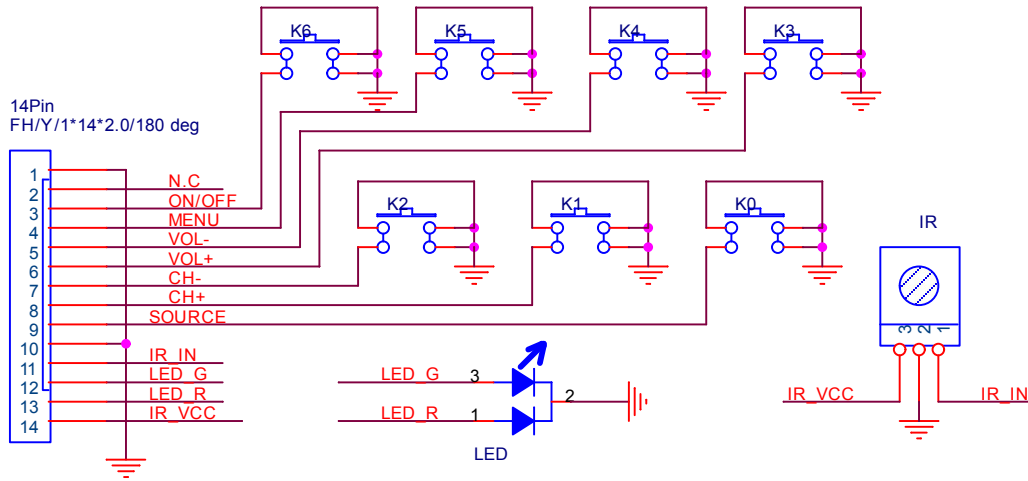


|                                           |                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------|
| Frequency Range<br>( 频率范围 )               | 50Hz/60Hz±5%                                                                  |
| Inrush Current<br>( cold start ) ( 浪涌电流 ) | 100A type peak,230V~;                                                         |
| Efficiency ( full load )<br>( 效率 )        | 80% min (Full load with input AC voltage of 115Vac @ 60Hz and 230Vac @ 50Hz ) |
| Leakage Current<br>( 泄漏电流 )               | Less than 0.35mA , 240V~ input                                                |
| Standby Power Loss<br>( 待机功耗 )            | ≤0.5W 240V~ input and no load                                                 |
| Input Fuse ( 输入保险 )                       | T3.15AL/250Vac                                                                |

◆ Output Electrical Requirements ( 输出特性 )

| Promotion Power and backlight Spec ( 电源及背光规格 ) |                                |                             |                                                                             |
|------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------------------------------------------------|
| Power<br>( 功率 )                                | Transformer model<br>( 变压器型号 ) | Backlight Value<br>( 恒流规格 ) | Note<br>( 备注 )                                                              |
| 50W                                            | P55-1219-T1                    | 30-44V/25W                  | 备注 :背光功率匹配 45W 以下，主推背光电压范围 45-100V，单路背光输出, 客户如有其他电压和电流需求，可以通知业务知会 研发进行背光匹配。 |
|                                                | P55-1224-T1                    | 45-65V/25W                  |                                                                             |
|                                                | P55-1236-T1                    | 66-95V/25W                  |                                                                             |
| 75W                                            | P75-1224-T1                    | 45-65V/45W                  |                                                                             |
|                                                | P75-1236-T1                    | 66-95V/45W                  |                                                                             |
|                                                | P75-1250-T1                    | 96-130V/45W                 |                                                                             |
|                                                | P75-1219-T1                    | 35-45V/45W                  |                                                                             |

## KEY & IR BOARD SYSTEM SCHEMATIC ( 按键和遥控系统原理图 )



## INTERNATIONAL STANDARDS ( 国际标准 )

### Safety ( 安全 )

The power supply shall compliance with following Criterion:

( 电源安全性满足下列标准 )

- ◆ UL60950/UL60065
- ◆ EN60950/EN60065
- ◆ GB4943-2011/GB8898-2011
- ◆ IEC60950/IEC60065

### Isolation ( 隔离 )

- ◆ HI-POT ( 耐压测试 )

Input to Output: 3000Vac 50Hz 1minute $\leq$ 10mA

- ◆ Isolation Resistance ( 隔离电阻 )

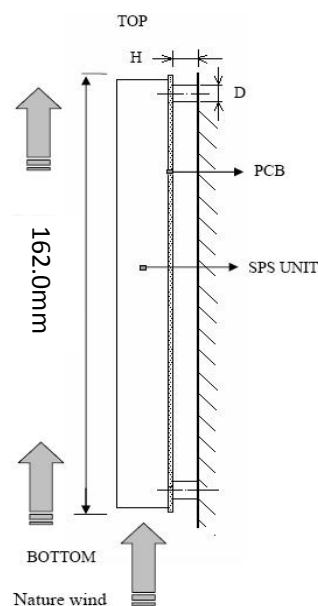
Input to Output: DC 500V 50M $\Omega$  min (at room temperature)

## MOUNT PRECAUTIONS ( 装配注意事项 )

|   |                     |
|---|---------------------|
| D | $\leq 5.5\text{mm}$ |
| H | $\geq 7.0\text{mm}$ |

Note:

- ◆ Mount the TV board to the mounting board using M3 screw. The maximum value of the tightening torque is 0.4N/M. The insertion depth of the screw should be less 5.5 mm.
- ◆ If  $H \leq 7.0\text{mm}$  .Add Mylar under PCB bottom.



## ENVIRONMENTAL REQUIREMENT & NOTICE ( 环境要求和注意事项 )

- ◆ Do not pressed and distorted. ( 禁止挤压和弯曲 )
- ◆ Keep away from static and water. ( 远离静电和水 )
- ◆ Relative humidity : 10% ~ 90%. ( 相对湿度 : 10% ~ 90% )
- ◆ Storage humidity : 5% ~ 95%. ( 储存湿度 : 5% ~ 95% )
- ◆ Storage temperature: -10~ +60°C. ( 储存温度 : -10~ +60°C )
- ◆ Operation temperature: 0~ +40°C. ( 操作温度 : 0~ +40°C )
- ◆ Cooling Method: Ventilation cooling. ( 冷却方式 : 通风 )
- ◆ The production shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on it. ( 该产品不能遭到水滴或水溅 , 而且设备上不能放置诸如花瓶一类装满液体的物品 )
- ◆ Please use it under the condition of good aeration. ( 该产品使用时需有良好通风 )