Led asynchronous controller Y17

Version 1.0  2017.6.25

1. Product picture
2. Case picture

3. Y17 has following traits

① Supporting non-linear editing;
② Video hardware decoding;
③ Supporting PCI-E 3G modem;
④ WIFI modem on board;
⑤ Supporting maximum 1280x1024 pixels;
⑥ Supporting HDMI audio and video outputs;
⑦ Supporting secondary development based on Android system, for example, customer could embedded own APP to realize some special
requests, no need to use AIPS platform;

⑧ Fast communicate rate, totally solve the 3G communication bottle-neck, Packet Switched Domain (PS for short) bearer service under WCDMA mode: maximum rate is 384Kbit/s; HSDPA Max 14.4Mbps(DL)/Max 5.76Mbps(UL); UMTS Max 384Kbps;

⑨ Supporting continue transfer from breakpoint, adopting database warehouse management for onboard program so that could reduce dataflow extremely and optimize storage space;

⑩ Supporting to connect receiving cards, refresh rate will self adapt to screen resolution, adjust brightness to realize better display effect;

⑪ Possessing strong software----web-base multi-media publishing system (AIPS), so that could manage all terminals, edit and publish program;

4. Interfaces pin out

Y17 card has 8 groups of HUB75 interfaces, pin out as following:

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>3</th>
<th>5</th>
<th>7</th>
<th>9</th>
<th>11</th>
<th>13</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD1</td>
<td>BD1</td>
<td>RD2</td>
<td>BD2</td>
<td>A</td>
<td>C</td>
<td>CLK</td>
<td>OE</td>
<td></td>
</tr>
<tr>
<td>GD1</td>
<td>GND</td>
<td>GD2</td>
<td>GND</td>
<td>B</td>
<td>D</td>
<td>LAT</td>
<td>GND</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
</tr>
</tbody>
</table>
## 5. Technical parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical parameters of Y17</td>
<td></td>
</tr>
<tr>
<td>max pixels</td>
<td>1280x1024</td>
</tr>
<tr>
<td>3G/4G</td>
<td>Support</td>
</tr>
<tr>
<td>WIFI</td>
<td>support</td>
</tr>
<tr>
<td>HUB</td>
<td>Standard hub, has 8 hub75 interfaces</td>
</tr>
<tr>
<td>Onboard System</td>
<td>Android</td>
</tr>
<tr>
<td>LED screen's color</td>
<td>full color</td>
</tr>
<tr>
<td>FLASH onboard</td>
<td>512MB, expand to 32G by TF</td>
</tr>
<tr>
<td>grey level</td>
<td>65536</td>
</tr>
<tr>
<td>LED module scan types</td>
<td>Support random scan types within 32 scans</td>
</tr>
<tr>
<td>Communication ports</td>
<td>Ethernet/U-disk</td>
</tr>
<tr>
<td>audio</td>
<td>YES</td>
</tr>
<tr>
<td>GPS</td>
<td>Support display in specific location</td>
</tr>
<tr>
<td>camera</td>
<td>support</td>
</tr>
<tr>
<td>Weather forecast (Chinese)</td>
<td>support</td>
</tr>
<tr>
<td>Readback display content</td>
<td>support</td>
</tr>
<tr>
<td>Display in schedule</td>
<td>YES</td>
</tr>
<tr>
<td>Video formats</td>
<td>AVI, WMV, MPG, MOV, DAT, VOB, MP4, FLV</td>
</tr>
<tr>
<td>Animation formats</td>
<td>GIF, SWF</td>
</tr>
<tr>
<td>Image formats</td>
<td>Bmp, jpg, gif, wmf, ico</td>
</tr>
<tr>
<td>Text formats</td>
<td>Txt, rtf</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Text display mode</td>
<td>Single line, static and multi-line</td>
</tr>
<tr>
<td>Clock</td>
<td>Types of analog clocks and digital clock</td>
</tr>
<tr>
<td>Timing</td>
<td>Timing and countdown</td>
</tr>
<tr>
<td>Software</td>
<td>WEB (<a href="http://www.m2mled.net)---AIPS">www.m2mled.net)---AIPS</a> platform</td>
</tr>
<tr>
<td>Configuration software</td>
<td>Ledset2.0</td>
</tr>
<tr>
<td>Stock</td>
<td>in stock</td>
</tr>
</tbody>
</table>

6. Working condition

<table>
<thead>
<tr>
<th>Common parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working voltage</strong> (V)</td>
</tr>
<tr>
<td><strong>Maximum operating current</strong> (A)</td>
</tr>
<tr>
<td><strong>Maximum power consumption</strong> (W)</td>
</tr>
<tr>
<td><strong>Working temperature</strong> (°C)</td>
</tr>
<tr>
<td><strong>Size</strong> (cm)</td>
</tr>
<tr>
<td><strong>weight</strong> (g)</td>
</tr>
</tbody>
</table>
7. Dimension

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8. Notifications:

1. Strictly prohibit plugging and removing SIM card with power on.

2. Strictly prohibit plugging and removing PCIE modem with power on.

3. Strictly prohibit plugging and removing HUB with power on.

4. Strictly prohibit plugging and removing antenna with power on.

5. Try not to touch the IC and pins so that to avoid the electrostatic damage.
9. Brief introduction of web multi-media publishing system

It is a B/S architecture software, supports tablet, cell phone and desktop computer automatically with perfect UI (user interface) and excellent experience, realize cross various platforms; traits as following:

① supports group management, check online/offline status in real time;

② supports to publish real time notification;

③ supports to read back screenshot for picture showing on the sign, please see picture below:
④ supports to read back programs;

⑤ supports to turn on/off led sign and adjust brightness remotely;

⑥ supports to upgrade firmware and set parameters remotely;

⑦ supports schedule operation including publish programs or operate led sign in schedule time;

⑧ supports to adjust time through sever;

⑨ excellent interoperate on web, no need to refresh to get the real time operant response and status

⑩ great concurrency by adopting the best background program and cloud database storage solution
① adopting non linear editing way and getting rid of the constraint of traditional LED program editing, no window and program material limitation, to meet users operation habits especially for editing and publishing advertisements;

② advertising contents statistics on time; charging and creating report forms automatically;

③ supports user management, rights management and classification system for examining and publishing programs;

④ supports log management including user log, terminal log and bug log;

⑤ Make all led panels synchronizing by network timing. Can set exactly schedule and set time for each material, to realize synchronizing multiple led panels’ pictures through internet.
Mainly applied in following occasions:
Outdoor advertisement led display; on-vehicle led display; chain store led display; government and bank led displays;

Brief introduction of system principle:
1. led controller accesses to Internet via Ethernet cable, wireless 3G/GPRS, WIFI;
no need to install terminal software, users can control their terminals via web browser when has internet;
10. **Build up Server**

1. If use Shanghai Xixun company’s web station;

2. We will provide company account; can assign subordinate users and administration authority after login company account.

3. If want to build up own web station, please consult Shanghai Xixun company.

11. **Only need to set the rtmp address in AIPS platform then can display the live streaming smoothly,**
Led controller accessing to AIPS wirelessly

Camera accessing to led controller through AP hotspot