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**Product Specification**

**ZH-C4**

**I. Function Introduction:**

**ZH-C4 belongs to full color series LED player, its functions are as follows:**

1. Adopt the same refresh technology as synchronous control system;
2. Support cascading receiving cards, support any size screen;
3. Support mobile APP (Android + iPhone) to send program;
4. Support U-disk, Wi-Fi hot-spot (AP mode) and Internet (STA mode) to realize cluster management;
5. Support remote cluster release management system;
6. Offer SDK file;
7. Support HD video hard decoding;
8. Supports audio output, 3.5mm standard audio output interface;
9. Support USB to play video and pictures directly;
10. Support brightness automatic, timing adjustment;
11. Support program play in sequence and timing;
12. Support UDP network communication protocol;
13. Support DHCP to obtain IP address automatically;
14. Support emergency information insertion;
15. Support weather forecast;
16. Support 1 pcs HDMI output port;
17. Support one-button full screen test;
18. Support 2pcs video Windows to play simultaneously;
19. Support manual switch, timing switch;
20. Support log, screen status checking;
21. Support multi-device play synchronously;
22. Support cloud login dynamic verification, support grouping, classification, monitoring, verify and other permission to manage.

**II. Basic Function Parameters**

|  |  |
| --- | --- |
| **System Parameters** | |
| CPU | 8-core A53, 1.5GHz |
| Operation System | Android 5.1 |
| System Storage | 8G (The system takes up about 2.5G) |
| Control Area | Loading Points: 2.0 million points  Maximum Width: 4096，Maximum Height: 2160 |
| Support Resolution  (Width\*Height) | 960\*2160 1012\*2048 1080\*1920 1152\*1792 1296\*1600 1480\*1400 1518\*1366 1620\*1280 1800\*1152 1920\*1080 2048\*1012 2304\*900 2560\*810 2592\*800 2816\*736 3072\*672 3200\*648 3264\*632 3456\*600 3600\*576 3672\*564 3840\*540 4096\*512 |
| Receiving card | All series ZH receiving card |
| **Device Port** | |
| Synchronous input interface and quantity | Not support synchronous |
| Asynchronous input interface and quantity | Gigabit network\*1,USB\*2,WiFi\*1 |
| Output port and quantity | Gigabit network\*4, Audio\*1, HDMI\*1 |
| **Media playback formats** | |
| program, window | Multi-program sequence, timing and other playback methods; arbitrary partition and overlay playback of windows |
| Video formats | AVI,F4V,WMV,MPG, RM/RMVB,MOV,VOB,MP4,FLV,TS,MKV and other common video formats; can support 2 video windows to play at the same time |
| Picture formats | BMP、JPG、PNG、GIF and so on |
| Audio formats | MPEG(MP3)、AAC and so on |
| Text document | Support software to edit single-line, multi-line, colorful text; support TXT documents import; support word, Excel, PPT, etc. of 2007 or later versions of office import |
| Other function | Support clock, watch face, timing, weather forecast (commercial grade), streaming media, etc. |
| **Management and control** | |
| Software | PC：LEDPlayerV5；APP：LED Mobile Color; WEB |
| Program update communication | U disk export, plug and play; self-adaptive 100M/1000M network port direct connection or access to LAN to send; WiFi AP mode or STA mode control |
| FPGA file | Built-in many brand module FPGA file, can quickly debug the display |
| Brightness setting | Screen brightness can be set according to time |
| Remote controller | Play volume, signal, material, etc. can be controlled through the software remote control function |
| cluster mode | Support local server cluster, Support cloud server cluster |
| **Safety** | |
| Local | Support local send password setting |

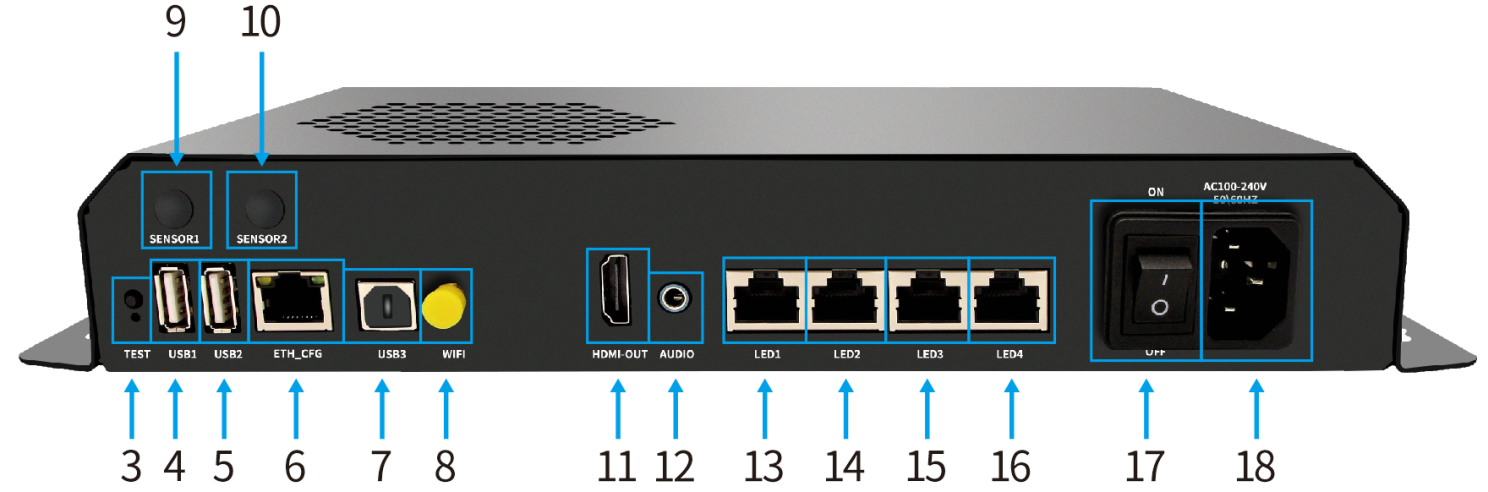
**III. Input/Output Port Arrangement and Definition**

**Hardware Introduction:**

**The Front Panel**



**The Back Panel**



|  |  |  |  |
| --- | --- | --- | --- |
| **NO.:** | **Name:** | **Function:** | **Note:** |
| 1 | Indicator | Power indicator | Red light always on |
| 2 | Operation indicator | Green light flashing regularly |
| 3 | Test button | Checking device information, test screen | 13 kinds of test mode |
| 4 | USB port | Read content, enlarge memory |  |
| 5 | USB port | Read content, enlarge memory |  |
| 6 | PC port | Link with PC, set parameter, send content |  |
| 7 | USB port | Hardware update |  |
| 8 | WiFi antenna port | Link with WiFi antenna |  |
| 9 | Sensor port | Connect with light sensor | Need to be customized |
| 10 | Reserved port | Reserved interface for backup | Need to be customized |
| 11 | HDMI port | HD HDMI output |  |
| 12 | Audio output port | Connect external active amplifier |  |
| 13 | Gigabit port | Link with receiving card |  |
| 14 | Gigabit port | Link with receiving card |  |
| 15 | Gigabit port | Link with receiving card |  |
| 16 | Gigabit port | Link with receiving card |  |
| 17 | Switcher | Power switcher |  |
| 18 | 220V port | 220V power input port |  |

**Working Condition:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rated voltage (V) | 220 | Maximum | 240 | Minimum | 100 |
| Rated current (A) | 0.15 | Maximum | 0.3 | Minimum | 0.1 |
| Rated power consumption (W) | 33 | Maximum | 50 | Minimum | 20 |
| Extreme temperature(°C) |  | Maximum | 80 | Minimum | -40 |
| Working environment temperature (°C) |  | Maximum | 80 | Minimum | -40 |
| Working environment humidity (%) |  | Maximum | 95 | Minimum | 0 |

**IV. Hardware Diagram:**

