# KP4K Specification

## Pandora Series

Version: V2.1

Release Date: May 2025

# Revision History

| Version Number | Brief description of the revised content | Revision Date | Revisionist |
|---|---|---|---|
| V1.0 | Initial release | 2022/11/07 | Liao Yajian |
| V2.1 | Add authentication and modify document format | 2025/05/26 | Liao Yajian |

# Product Overview

The Pandora Box KP4K is a new generation of cloud LCD networked information distribution box from Kystar , supporting 4K high-definition output. Based on the powerful Kares cloud service platform, it offers features such as device monitoring via web browser login, program production and scheduling, cluster publishing, and multi-level permission management.

Multiple networking options, including 4G, WiFi , and wired networks, it enables rapid deployment and intelligent cloud management , enabling unified management of multiple screens, multiple services, and cross-regional operations. It supports PE for program editing and information publishing, supports multi-window layout, and supports playback of various program materials, including videos, images, text, tables, weather, and clocks. It is widely used in commercial LCD displays, such as chain store screens, advertising machines, retail store screens, and PC-free screen.

## Product Certification

FCC, CQC, CE, RoHS

## Features

- Support 4K HD output

- Support horizontal and vertical screen switching

- Powerful decoding capabilities, supporting 4K hard decoding, H264/265 and other common encoding videos

- WIFI 2.4G+5G dual-band, wired Ethernet port, USB flash drive, 4G (optional) multiple communication methods

- Built-in 32GB (25G available to users), supports USB flash drive expansion

- 3.5mm audio output, audio and video synchronous output

- Window and material playback

  - Support multiple windows and multiple materials to play on the screen at the same time

  - Supports rich media materials, such as pictures, videos, text, clocks, etc.

  - Up to 1 4K or 4 1080P video playback

- All-round control

  - Supports Kares cloud platform, hierarchical management and multi-role program release

  - new Kystar PE program editor, drag and drop operation, do what you want

  - The simple APP provides full control over screen adjustment, editing, and management, allowing you to enjoy the big screen at your fingertips.
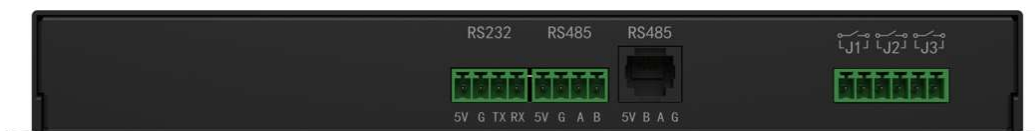
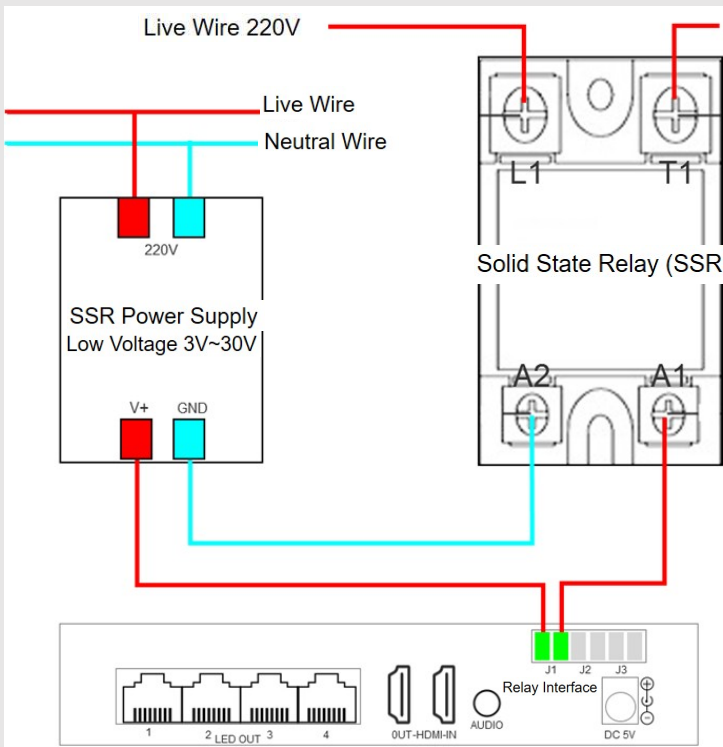# Parameter

Front panel appearance



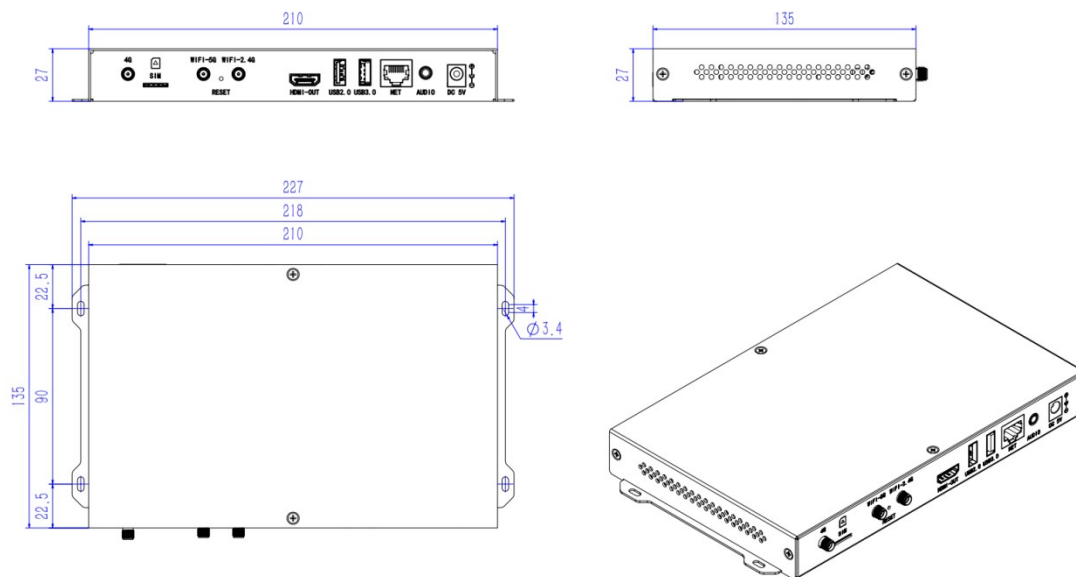| Name | Functional Description |
|---|---|
| 4G/5G (optional) | Antenna interface, supports 4G/5G cards of the three major operators |
| RESET | Press and hold for 5 to 10 seconds and then release to take effect within 30 minutes of operation. |
| WIFI | Wi -Fi antenna port, supports 2.4G/5G dual-band signals |
| HDMI -OUT | HDMI output interface, supports up to 4K resolution output |
| USB | USB 2.0*1 USB 3.0*1 Update programs via USB flash drive |
| LAN | Gigabit input network port, access to LAN, can be directly connected to PC |
| AUDIO | 3.5mm audio output port |
| 5V DC | Provides 5V/ 3A DC power supply 5.5x2.1x10mm |

Rear panel appearance



| Interface information |
|---|

| Type | QTY | Specification |
|------|-----|---------------|
| RS485 | 1 | 485 interface, can be connected to external sensor control |
| RS485 | 1 | 485 interface, can be connected to external sensor control |
| R S232 | 1 | 232 interface, can be connected to external sensor control |
| J1-J2-J3 | 1 | Relay interface , can control external power switch<br><br>DC: Maximum voltage 30V, maximum current 3A<br><br>AC: Maximum voltage 250V, maximum current 3A<br><br>Note: It is recommended to use DC power. It is not recommended to directly control AC power with relays. If AC power needs to be controlled, it is recommended to use the wiring method shown below.<br><br> |

* Due to hardware upgrades, interface differences will not be notified separately. The actual product will prevail.

# Size



**Unit: mm**

# Specification

| External interface type | |
|---|---|
| USB | Used for external U disk transmission of programs and parameter configuration |
| Gigabit input network port *1 | Access to LAN , cluster control |
| WIFI | WiFi 2.4G/5G dual-band, can be used as a hotspot for mobile phones and computers to connect |
| HDMI | HDMI 4K output |
| 4G/5G | Access to WAN (L610 module needs to be purchased separately) |
| DC power input | DC 5V/ 3A power supply |
| **Performance parameters** | |
| Hardware performance | Quad-core A55 ARM processor, clocked at 1.8GHz. −Supports H.264 and H.265 4K@60Hz video decoding |
| Storage | 32 GB built-in storage ( 25 GB available to users) |
| Load size | 4K output |
| Wi- Fi connection distance | 20 meters (unobstructed) |
| **Support multimedia formats** | |
| Video Format | AVI, WMV, MPG, RM/RMVB, VOB, MP4, FLV and other common video formats; Supports multiple videos playing simultaneously |
| Audio Format | MPEG-1 Layer III, AAC, etc. |
| Image Format | Support bmp, jpg, png , etc. |

| Text form | Single-line text, static text, multi-line scrolling text, office, etc. |
|---|---|
| Clock | Real-time clock, multi-region clock display and management |
| OSD | Supports 32-bit true color OSD, can be displayed at any position, supports video/graphics mixing, and can overlay graphics on video. |
| **Machine specifications** | |
| Dimensions | 227 x 1 35 x 27 mm (L×W×H) |
| Packing size | 322x254x48mm (L×W×H) |
| Net weight | 770g |
| Finished product weight | 1070g |
| Input adapter power | DC 5V/3A power supply |
| Rated power | 12W |
| Operating temperature | -20℃ ~ 70℃ |
| Operating humidity (%) | 5% ~ 95% |
| Protection level | IP20<br><br>Please pay attention to waterproofing, do not immerse the product in water , do not let water drip into the product, etc. |

**Notes:**

1)    To ensure the time storage of the control card during normal operation, please make sure that the battery on the control card is normal and not loose;

2)    To ensure long-term stable operation of the system, please try to use a standard 5V power supply voltage;

3)    The battery is a rechargeable battery. If the device has not been used for a long time, please power it on for a few hours. It can be used normally after it is fully charged .

# Copyright Notice

**Statement**

We welcome you to use products from Beijing Kystar Technology Co., Ltd. We are deeply pleased if this document helps you understand and use our products. While we strive for accuracy and reliability in preparing this document, we are subject to modification or change at any time without prior notice. If you encounter any problems or have suggestions, please contact us using the contact information provided. We will do our best to support you with any questions you may have. We sincerely appreciate your suggestions and will promptly evaluate and implement them.

Beijing KystarTechnology Co., Ltd.

A professional provider of comprehensive solutions and operation services for ultra-high-definition video display and control.

Sales@kystar.net
www.kystar.com.cn/en | www.kommander.com.cn/en