



Description

A multimedia IOT teaching terminal that integrates audio and video matrix, IOT central control, DSP audio processing, power amplifier, network audio decoding and other functional modules. The device has high integration, strong expandability and powerful functions, and is suitable for regular classrooms, multimedia classrooms, and lecture halls.

Feature

- *Standard 1U rack-mount design, black anodized aluminum brushed panel, professional mechanical assembly process.
- *The device is highly integrated, with built-in audio control, video matrix, IoT central control, power amplifier, network audio decoding and other modules, and is rich in functions.
- *Built-in matrix switching module, supports 4-channel HDMI high-definition input, 2-channel HDMI high-definition output, and can realize synchronous audio and video output.
- *With 1 RJ45 microphone interface, which can be connected to 1 pedestal microphone to provide clearer and more stable audio input for teaching or conference.
- *Built-in digital wireless teaching receiving module, can connect two teaching wireless handheld microphones. Digital wireless audio transmission adopts digital modulation, with automatic frequency scanning and automatic frequency pairing functions.
- *With wireless handheld microphone infrared frequency expansion interface, which is used to connect an external infrared frequency transmitter to expand the frequency range.
- *With 2-channel digital wireless antenna expansion interface for external receiving antenna to expand the receiving range.
- *Built-in 120W intelligent digital amplifier module, with 4-channel amplifier output interface, can be directly connected to fixed-impedance speakers to meet local sound reinforcement needs.
- *Integrated network broadcasting function, built-in network IP decoding module, can be used as a digital broadcasting decoding terminal, and in conjunction with the network broadcasting system, it can realize functions such as timed broadcasting, network audio playback, remote program on demand, and scheduled task playback.
- *Built-in professional DSP audio processing function, realizing practical functions such as remote gain adjustment, 15-band EQ balance adjustment, noise gate, compressor, feedback suppression, audio matrix, etc., with 4 kinds of sound effects quick save and start function, which can cope with various changeable classroom environments, and facilitate adjustment and optimization of classroom sound reinforcement environment.
- *With the howling suppression function, it can effectively improve the sound transmission gain and enhance the teaching experience of teachers and students.
- *With audio switching matrix function, supports customized audio input and output configuration, and realizes precise control of teaching audio scenes.
- *With 100V constant voltage signal backup input. When the network is abnormal or the device is powered off, the broadcast signal automatically switches from the digital network signal to the analog constant voltage signal to ensure the smooth progress of the college entrance examination listening test.
- *With 1 programmable power control interface, supports delayed power-off function, and the delay time can be customized to ensure that the device automatically shuts down normally before powering off, which can effectively protect the device.
- *With 1 electric curtain control interface, which supports the control of electric curtain raising/lowering/pausing functions. The interface adopts European standard design to prevent users from connecting other electrical devices to this interface, thus avoiding damage to the equipment.
- *With 1 infrared learning port and 2 independent programmable infrared IR sending interfaces, which can control infrared remote control devices such as cameras, TVs, projectors and air conditioners.
- *With 2-channel weak relay control interface, which can trigger and control power sequencer, electric lock and other equipment.



- *It has 2 RS-232 bidirectional communication interfaces, which can control third-party devices such as projectors, signal switchers, power controllers, dimmers, cameras, etc.
- *With 2 RS-485 control interfaces, which are independently programmable and can be connected to sensors such as temperature and humidity, current detection, PM2.5 detection, and microphone processors. It can expand the management and control host to realize real-time monitoring of the classroom environment, and control linkage according to the monitoring data to automatically adjust to a comfortable learning environment.
- *With 2 I/O interfaces, which can realize computer switch control, connect to switch quantity sensor devices such as human perception/disconnection alarm, and realize functions such as door magnetic status feedback.
- *With 1 Wiegand protocol interface, which can be connected to an external card reader to expand the management and control host to realize the card swiping attendance management function. It supports the definition of card swiping mode, and the card swiping can automatically link the class mode/off-get out of class mode.
- *The terminal supports multi-terminal control and management of teacher web terminal, administrator web terminal, Android APP, Apple APP, control panel, H5, WeChat applet, and DingTalk applet, reaching users through multiple channels, with unified and convenient operation and real-time status synchronization. It needs to expand the management and control host to achieve this.
- *Support multiple classroom control panel setting strategies, use card swiping and control panel button combination to control the terminal, avoid irrelevant personnel operation. Need to expand the management control host to achieve.
- *With one key reset function, it can be restored to the factory state with one key.
- *The whole system has flexible scalability and powerful network control function. It can be expanded through the network to access serial infrared control modules, I/O modules, relay modules, lighting control modules, etc., to achieve the deep integration of classroom Internet of Things, environmental perception and "Internet +".

Specification

Network Interface	Standard Rj45
Network speed	100Mbps
Video input interface	4-channel HDMI, HDMI1.4 standard
Video output interface	2-channel HDMI, HDMI1.4 standard
HDCP Protocol	support
Resolution	3840x2160@30, 1920x1080@60
EDID	2
Audio Input	1 RCA, 1 RJ45, 1 100V analog backup signal, 2 U-segment wireless receivers, network broadcast audio source, 4 HDMI
Audio output	1 RCA, 2 HDMI
Rated total power output	120W
Front speaker output	60W MAX/8Ω
Center rear speaker output	60W MAX/8Ω
Audio input sensitivity	Unbalanced 775mV
Audio output sensitivity	Unbalanced 1V output
SNR	>73dB(A)
RS-232	2
RS-485	2
I/O	2
Remote control panel interface	Independent RS485 interface
Infrared sending port	2
Weak relay port	2
Wiegand protocol interface	1
Power Output	1 channel, AC 220V 50Hz (400W MAX)
Electric curtain control interface	1 channel, AC 220V 50Hz (100W)
Wiegand protocol interface	1
Operating Voltage	AC 220V 50Hz
Power consumption	400W (power consumption of power supply and electric curtain is not included)
Working temperature	-10°C~+45°C
Relative humidity of working environment	20%~80% relative humidity, no condensation
Machine dimension (L×D×H) mm	484×315×44
Weight	4.5kg