

## D6401

# Programmable Network Multimedia Central Control Host



### Description

D6401 is network control host based on the iOS platform hand-held terminal (iPad / iPhone, Android) , which supports network cascade and intelligent control network fully compatible with traditional control programming control. With a luxurious and elegant appearance design, it will be a new generation of intelligent control host representatives, leading the trend of network control host.

### Features

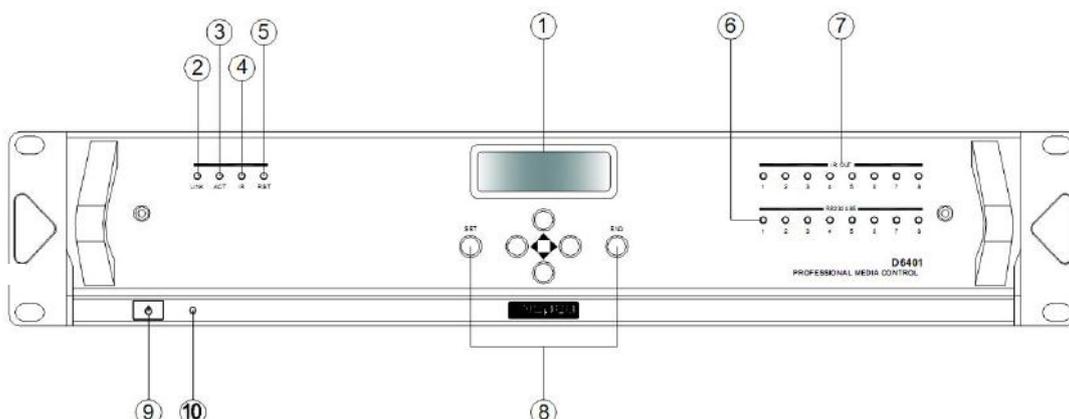
- Support for remote network control, with built-in network interface, support network cascade, support iPad / iPhone and Android hand-held terminal, communicate with the host through Wifi;
- Applies programmable control platform with Chinese and English programmable interface and interactive control structure;
- Applies the latest 32-bit embedded processor with processing speed up to 533MHZ;
- A large number of highly integrated co-processor chip and elegant LAY OUT so that the system's running is very stable and smooth;
- Built-in 8MB memory and 16MB large-capacity FLASH memory in the host ;
- iPad / iPhone / Android human-Computer interface design programming compatible with the traditional touch screen programming; no need to re-learn the new programming methods, very easy to upgrade it.
- 8 independent programmable RS-232 control interface which can send and receive RS232, RS485, RS422 format data;
- Host can ring out, serial 1-8, any input can be output from another serial por' ;
- 8 independent programmable IR infrared transmitter which can be used for serial port and the total number of programmable port reaches 16;
- Road digital I / O input and output control port, with protection circuit;
- 8 weak relay control interface;
- Full support for remote network control, built-in network interface, no need for expansion card;
- With 2 NET network control interface, you can connect up to 256 network devices in parallel;

- Users can program and set any control protocol or control code;
- Embedded intelligent infrared learning function module, no need to configure professional learning device;
- Support dual code control which is a key to send two kinds of code;
- Support hardware learning infrared function; customers can easily upgrade the infrared equipment without the necessity of programming again;
- Can download from the Internet a variety of commonly used electrical equipment and infrared code library from the Internet;
- The rear panel has a system software transmission interface;
- Applies internationally popular SMT all-chip production process;
- With standard 19-inch cabinet design with 1.5U height, elegant and beautiful. The front panel is with black oxidation drawing process;
- Standard environmentally friendly power (110V-240V), suitable for any venues.

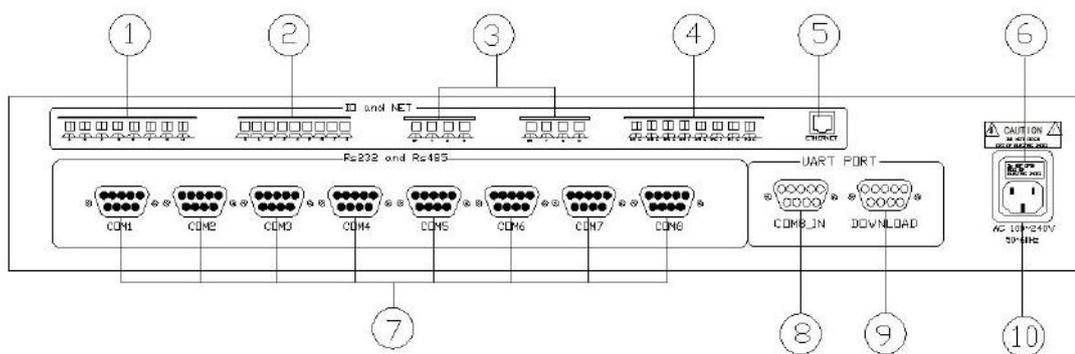
## Specifications

Model	D6401
CPU	CPU 32 bit ARM microprocessor
Processor	210MIPS, up to 533MIPS
Standard memory	8M SDRAM, 16M Flash
Expanded memory	Can be expanded to 32M
Package	Metal chassis, support standard 19-inch rack mount, 1.5U height
Size	485 X 236X 68 (mm) (L xW xH)
Power supply	Universal power supply with wide voltage (110V)
Weight	2.5kg
Software	Control System Builder with Chinese and English interface

## Front / Rear Panel



- ①---- LCD screen displaying the current state of the device.
- ② ---- LINK status indicator for the D6401 network data status.
- ③ ---- ACT status indicator for the D6401 network connection status.
- ④ ---- IR infrared remote control signal entry port. In infrared learning, it's used to receive the infrared code of the remote control. Generally it's used in engineering commissioning.
- ⑤ ---- RST reset button, it is for hardware reset D6401 host.
- ⑥ ---- Status indicator, it's for the D6401 COM1-COM8 working status display.
- ⑦ ---- Status indicator, it's for the D6401 IR port IR1-IR8 working status display.
- ⑧ ---- Button of network parameter settings.
- ⑨ ---- Power switch.
- ⑩ ---- POWER status indicator for the D6401 working status



- ①----8-line weak relay.

External load up to: DC 5V / 1A, can be used to control the projector hanger lift .

- ②---- 8-line digital IO

Various devices can be controlled by different external connection ways. When it receives a series of signals or some line input has a short-circuit with the ground, a series of instructions is triggered. It can also be defined as I / O port is triggered and controls equipment connected to I/O port when triggering a series of instructions inside the system.

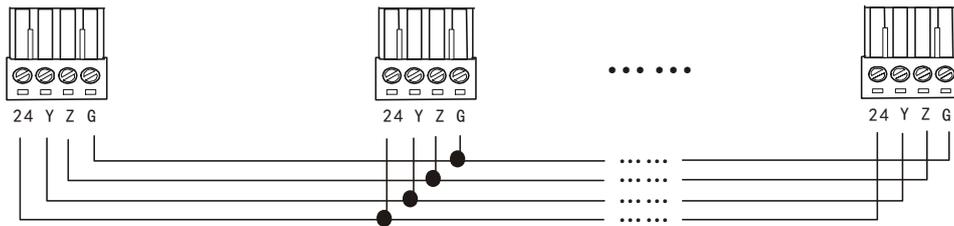
- ③----2 NET master line communication port

2 NET master line communication interface, based on 485 protocol, applies four-wire communication, two of which transmit signals, the other two lines supplying power to equipment hanging in master line

A maximum number of 256 compatible NET communication devices can be hung in the master line. Each device can have different ID number. D6401 host can communicate with the corresponding device based on different ID number. D6401 host scans devices on the master real-time, monitors the status of all equipment on the entire master line. It gives corresponding response to specific situations so that it can reaches perfect effect.

The following devices can hang on the NET master line: D6421 and D6417. The device hung on the master line can be one or more, as long as the total doesn't exceed exceed 256. The ID number of the device on the same master must not be the same, and the ID number of each device must be unique.

The specific wiring method is shown below.



④---- 8-way infrared transmission port

A. Support eight infrared devices at the same time. Each infrared device can connect to any port of the eight infrared transmitters of D6401 host through the infrared transmitter rod so as to achieve intelligent control of infrared equipment.

B. There are two interfaces: Ir (x) and G. Ir (x) connected to the positive (white and black line) of the infrared emitter rod, and G connected with the negative (black) of the infrared emitter.

⑤ ---- 1 Ethernet RJ45 interface.

D6401 host can be connected to the Ethernet or WIFI to achieve IPAD / IPHONE / ANDROID wireless control or remote control system through the D6401 host.

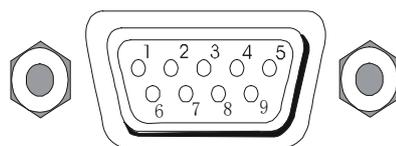
⑥ ---- Power fuse.

Power interface comes with a fuse to prevent the voltage from going too high suddenly and causing damage to D6401 host.

⑦ ---- 8 serial control interface.

It is compatible with RS232, RS422 and RS485 communication protocol at the same time and it can achieve two-way control. The baud rate of each port is from 300 to 38400 and ports can connect externally with 8 kinds of interface equipment with RS232, RS422, RS485 communication protocol. Each interface sends / receives code independently without interference to each other. Each serial port can be connected to multiple devices. Separate control or synchronous control can be achieved but different baud rates and codes are required! Equipment that can be controlled are various types of matrix equipment, projector PTZ and a series of RS232, RS422 and RS485 communication equipment with protocol.

The serial control port (applying standard 9-pin male-DB9 / M) is as defined as below.



Pin No	1	2	3	4	5	6	7	8	9
Description	B	RXD	TXD	Y	GND	A	RTS	CTS	Z

⑧---- COM8-IN

⑨----Download port of DB9/F program

It is used to support the power carrier communication equipment and its biggest advantage is to save the trouble of re-wiring and simplify the system structure, greatly improving the efficiency of the project. This feature is optional.

⑩----Power supply port.

Universal power port of voltage 110V-240V.