

NET-4000

Modular multimedia controller



NET-4000

Product overview

NET-4000 is a programmable modular multimedia controller. With the flexible port configuration, the controller can control the amplifier, light and curtain or other acoustic and photoelectric devices with one touch. And its seamless switching function can realize picture segmentation. The interaction of any two points in the local area network can be also easily realized with it.

It is widely used in teaching, conference halls and multimedia halls and other occasions.

Features

- Adopt 32-bit embedded system, ARM Cortex-A9 dual-core CPU, 1.1GHz frequency, 2GB memory, 1GB Flash storage;
- Video port: Built-in 4*2+1 mixed card seamless switching matrix:
 - 4-way video input card slots, support HDMI, DVI, VGA, SDI input cards, video input card with corresponding 3.5mm Line audio input;
 - 2+1 video output card slots, support HDMI, DVI, VGA, HDBaseT output cards;
- Output channel 1 supports screen segmentation of two-split screen, three-split screen, four-split screen;
- Audio input port: 2 audio card slots, built-in audio decoding;
- Support 1 channel RCA stereo audio output, all outputs of the built-in matrix have audio output;
- Built-in 8-port Gigabit Ethernet switch: realize the integrated management by software, can be connected to IP cameras;
- Serial ports: 8 bi-directional RS-232 ports, 1 RS-485 port, 1 RS-422 port to control projector, camera, etc;
- Support 4 IR ports;
- 4 digital I/O ports: for signal detection and cabinet linkage monitoring alarm, electronic lock, etc;
- 4 relay ports: Can control the switch of the classroom access electromagnetic lock, the platform cabinet electromagnetic lock, etc;
- 1 CR-NET port: to control CREATOR devices such as power controller, volume controller, dimmer, etc;
- 2 power output ports: 1*5V, 1*12V.

Specifications

The parameter name	NET-4000		
CPU	ARM Cortex-A9 dual-core, 1.1G Hz	CR-NET port	1
Memory	2G DDR-RAM, 1G FLASH	Power output port	1*5V; 1*12V
RCA audio output	1	Input card slot	2*audio card slot; 4*video card slot
Gigabit Ethernet port	8	Output card slot	3*video card slot
USB port	2*USB type A; 1*USB type B	Temperature	Storage & work temperature: -20~+70° C
Serial port	8*RS-232; 1*RS-485; 1*RS-422	Humidity	Storage & work humidity: 10% to 90%
IR output port	4	Power	AC 220V
Digital I/O port	4	Weight	6.36KG
Relay port	4	Mean time between failures	30,000 hours

Specifications

The parameter name		NET-4000
DVI/HDMI	Gain	0 dB
	Signal strength	T.M.D.S. +/-0.4pp
	Minimum / maximum level	t.m.d.s. 2.9V/3.3V
	Impedance	50 Ω
	Resolution	Normal-PC: 1600×1200@60Hz. HDCP: 1920×1200@60Hz. HDTV: 1920×1080P@60Hz
	Maximum DC error	15 mV
	Maximum output distance	less than 7m (it is recommended to use certified DVI and HDMI wires)
CAT5	Transmission distance	within 25m (the actual transmission effect and distance depends on the quality of the line of sight)
Audio	Input / output interface	3.5mm unbalanced stereo audio input, Phoenix balanced input
	Gain	0 dB
	Frequency response	20 Hz~ 20 kHz
	Total harmonic distortion + noise	0.1% @ 1 kHz (at rated voltage)
	Stereo separation	>80dB @ 1 kHz
	Signal-to-noise ratio (S/N)	>75dB at Vin=0 V
	Common mode rejection ratio (CMRR)	>75dB @: 20 Hz ~ 20 kHz
	Impedance	Input: >10 kΩ (balanced or/unbalanced) Output: 50 Ω (unbalanced), 100 Ω (balanced)
	Signal type	Stereo (non-flat audio)
	Maximum input level	+ 19.5dBu, (balanced / unbalanced connection)

System connection diagram

