Datasheet

CENTRACON-5000 | Audio-Visual Moduler Central Controller





Key features

- 4.3" Touch Screen: Provides an intuitive user interface.
- Memory and Storage: Equipped with 1GB DDR RAM and 8GB EMMC Flash.
- Program Player: Supports lossless audio formats (WMA, ACC, APE, MP3, FLAC, M4A, M4R, OGG, WAV, WV).
- Modular Design: 10 plug-in slots for various control modules (e.g., relay, IR, IO, NET bus, Zigbee, RF, LoRa).
- Programmable Control Platform: Supports programmable interface via PC, WEB, Android.
- Network Interfaces: 1 x 100 Mbps network interface 2 x 100 Mbps network interfaces with +48V output.
- Timed Control: Schedule and manage programs and devices.
- Intelligent Infrared Learning: Built-in module for easy infrared learning without professional configuration.

Product Overview

Introducing the Macsys CENTRACON-5000, the state-of-the-art Audio-Visual Modular Central Controller designed to revolutionize conference management and multimedia control. This advanced system integrates the management of lighting, equipment, projection, and audio-visual elements into a single, intuitive platform, offering users a seamless and efficient control experience.

The CENTRACON-5000 supports networked transmission, allowing for effortless interconnection between multiple central control hosts and function cards. This capability enables the management of more than one conference simultaneously from a central location, streamlining operations across various meeting spaces. It excels in audio-video switching with an 8-channel control panel and voice control panel, offering versatile management of audio and video sources.

In addition to sophisticated camera tracking, which provides precise speaker close-ups, and comprehensive projector control via RS232 protocol or infrared transmission, the CENTRACON-5000 manages power for devices such as curtains and HD TVs. It ensures unified control over their operation and integrates advanced volume control with real-time display on the touch screen interface.

The controller includes infrared control for devices like DVD players and air conditioners, consolidating multiple remote functions into a single wireless touch screen. Users can also set and switch between multiple scenes effortlessly and manage lighting brightness with precision. The system's modular design supports various input devices, including a voice control panel and a wall-mounted panel, enhancing user interaction and control flexibility. Additionally, the CENTRACON-5000 is compatible with incandescent lamp dimmers and extender terminal boxes, providing further customization and expansion options.

The CENTRACON-5000 features a 4.3″ touch screen, built-in 1GB DDR RAM, and 8GB EMMC Flash for responsive and reliable operation. It includes 10 modular slots for card-based expansion, a programmable control platform with interfaces in English and Chinese, and multiple network interfaces for connectivity. The system also offers timed control capabilities and an intelligent infrared learning module for easy configuration. Its wide voltage power supply (110V-240V) ensures compatibility across various regions.

Ideal for use in radio and television engineering, multimedia conference halls, large-screen display projects, television teaching, and command and control centers, the CENTRACON-5000 delivers comprehensive, efficient, and user-friendly control for diverse professional environments.

Techinical Specification

Featues	Detail
CPU	ARM Cortex-A9 Quad-Core
	Dominant Frequency: 1.6GHz
DDR RAM	1GB
Touch Screen	Size: 4.3 inches
MP3 Playback	Input Sensitivity: -10dB
	Frequency Response: 30Hz – 20kHz (-3dB)
	Total Harmonic Distortion (THD): ≤0.5%
	Signal-to-Noise Ratio (S/N Ratio): ≥75dB
Connection Method	Plug-in between modules and the host
Number of Plug-in Modules	10 modules
Network Interface	1 × 100Mbps interface
	2 × 100Mbps interfaces with +48V output
Power Supply	AC Input Voltage: 110V-240V
	Frequency: 50-60Hz
Package Dimensions	525 × 480 × 185
Machine Dimensions	483 × 375 × 88 (L×W×H mm)
Gross Weight	8.5 kg
Net Weight	7 kg

Modules & Accessories

Picture	Part Number	Item	Picture	Part Number	Item
	CENTRACON-5002	Weak relay card		CENTRACON-5002T	Weak relay card terminal
	CENTRACON-5003	IR infrared control card		CENTRACON-5003T	IR infrared control card terminal
	CENTRACON-5004	IO control card		CENTRACON-5004T	IO control card terminal
	CENTRACON-5005	NET bus card		CENTRACON-5005T	NET bus card terminal
	CENTRACON-5006	Serial communication control card		CENTRACON-5006T	Serial communication control card terminal
	CENTRACON-5007	Serial communication expansion card		CENTRACON-5007T	Serial communication expansion card terminal
	CENTRACON-5008	Zigbee control card		CENTRACON-5008T	Zigbee control card terminal
	CENTRACON-5009	RF control card		CENTRACON-5009T	RF control card terminal
	CENTRACON-5010	LoRa control card		CENTRACON-5010T	LoRa control card terminal
	CENTRACON-5011	GPS/Beidou time control card		CENTRACON-5011T	GPS/Beidou time control card terminal
	CENTRACON-5012	4-way volume control card		CENTRACON-5012T	4-way volume control card terminal
	CENTRACON-5013	4-way high-voltage incandescent lamp dimmer		CENTRACON-5014	8-button wall panel

	CENTRACON-5015	Voice control terminal		CENTRACON-5016	4-inch color touch screen
	CENTRACON-5017	Color central control touch screen		CENTRACON-5017W	Color central control touch screen
	CENTRACON-5018	Eight-way central control power controller		CENTRACON-5021	Wall-mounted expansion box
	CENTRACON-5031	Rack-mounted expansion box		CENTRACON-5032	Rack-mounted expansion box
	CENTRACON-5001	PC control software		CENTRACON-5000L	PC logic editing software
	CENTRACON-5000F	PC interface editing software		CENTRACON-5000A	Android control software
	CENTRACON-5000I	IOS control software		CENTRACON-5000W	WEB control software

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