Programmable intelligent central control host

FT-CM16-20

Feature:

1. The programmable intelligent central control host is designed for use in command and control centers, office automation, multimedia environments, smart homes and other fields. It is a fully networked and intelligent centralized control system that integrates programmable configuration protocols and programmable human-machine interfaces. It is an essential equipment for modern command and control centers and is widely used in emergency alarm command centers, military combat command systems C4ISR, government administrative centers at all levels, building automation, conference rooms, multi-function halls, training centers, exhibition centers, studios, industrial automation and other fields
2. Supports both local and cloud platform online programming. No software installation is required. Access the intelligent gateway IP address or cloud platform directly through the Chrome browser
3. Supports remote online debugging, remote online diagnosis, and remote online programming, which greatly saves manpower travel costs. Professionals can choose to complete programming online
4. Artificial intelligence neural network graph control algorithm, supports arbitrary complexity control operation graph weaving, and realizes free design, autonomous will, and closed-loop control
5. Neural network graph control operation mode, grasps the global operation status, supports controlled device encapsulation, and can effectively view the real-time operation status of each controlled device
6. The control modules are grouped into macro inheritance and sharing, and support user-built function modules, which can be written in the most popular network scripting language JavaScript
7. Support sharing resources on the cloud platform. Regardless of self-built modules, macro module grouping, or user graphic component group, they can all be shared on the cloud platform to form a sharing community
8. Support three sets of independent user control interfaces at the same time, support multi-user, cross-platform, and distributed control, and are suitable for multi-user cluster control scenarios;
9. Support multiple network control protocols. In addition to standard TCP, Udp, Telnet, Http protocols, other general or private network protocols can also be added
10. Support any Linux+ platform, which can be freely migrated. According to different application requirements, the running package can be freely migrated and integrated with the third-party product platform
11. Support downloading the central control program to the PC, which is convenient for later function addition and equipment maintenance
12. Support IOS/Android /PC browser and PC client control UI
13. Support large-scale network centralized management; support multi-conference room mutual control, remote upload and maintenance of programs
14. The front panel supports 8 programmable physical buttons, and any control mode can be added
15. The control software supports adaptive flat panel resolution, and the program is automatically full screen when uploaded to the flat panel
16. Supports custom control interface, which can be used with the central control host or control external devices alone
17. The host has 16 independent programmable IR infrared emission ports and a built-in infrared learner, which can support the control of all surrounding infrared devices (such as DVD/TV), and each infrared interface can be used as a one-way 232 interface

18. The host has 16 digital I/0 input and output control ports with protection circuit
19. The host has 16 weak current relay control interfaces
20. Supports multimedia computer control, which can control video playback pause, volume, PPT presentation page turning, etc.
21. Automation, timed appointment: programming is simple and fast. Through the programming control system, it can support any timed trigger control events, including a certain time and minute every year, month, week, and day, such as automatically turning on the conference room lights/turning on the display terminal/playing DVD videos and opening curtains at 8 am every day. At the same time, it also supports delaying the triggering of one or more events after any time triggering until all events are executed. Everything will be set and executed according to user needs
22. It can support the programmable button interface of the paperless system, control any environmental equipment through the central control, and achieve one-click closing of the lift, lights, power supply and other equipment after the venue ends
23. Supports visual programmable control, distributed architecture, and monitors the audio and video signals of each conference room through the tablet visually and remotely controls the lights, curtains and power switches
24. Support voice panel control, can realize 200 voice command control, can customize voice customization and control mode at will, realize human-computer voice intelligent interaction
25. Support inserting animation buttons to make the interface more technological
26. Support control power anti-touch operation, long press the power for 3 seconds to operate, and the real-time progress bar is displayed during long press
27. Support control of audio processor and the interface displays audio value in real time
28. Can control the equipment in the conference room in real time and monitor the control status of the equipment Can monitor the temperature, humidity, PM2.5 in the application environment in real time
29. The front programmable touch screen displays the current host IP, time, current version number of the host and other information in real time
30. Equipped with 1 5.5-inch programmable touch panel, supports uploading control programs to the touch panel for control

Specification:

CPU (main)	Domestic RK3568 quad-core ARM Cortex-A55 main frequency 2.0GHz
Operating system	Linux 4.19 kernel
System memory	2048M
Storage space	8192M
RELAY	16 - isolated low voltage relays (normally open contacts) 30VDC/AC 1A
I/O	16 - digital I/O inputs
INFRARED–SERIAL	16 - infrared or unidirectional RS-232 serial communication ports
COM	16 7-pin bidirectional RS-232/422/485 serial communication ports
LAN	2 RJ45 100M/1000M Ethernet interfaces
KNX	1 KNX bus interface (optional)
CAN	1 CAN bus interface (optional)
RST	1 - RST system reset button
LED	3 - LED system status indicator

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Programmable buttons	8 front panel programmable buttons
LCD display	1 5.5-inch programmable touch screen (front panel)
Infrared learning window	1 - Front panel infrared learning window
Power supply	24VDC 1A
Installation	standard 19-inch cabinet or flat installation
Working environment temperature	5℃ to 45℃
Working environment relative humidity	10% to 90%