Distributed interface machines

FT-CN2KI-F

Feature:

1. FT-CN2KI-F is a product that integrates splicing, display, control, recording, and broadcasting functions. It integrates high-performance video processing and splicing display, multi-screen multi-location centralized management, remote signal source sharing, massive streaming media access, dynamic ultra-high resolution point-to-point display, streaming video recording and playback, environmental management, external device control and other functions. It can meet the needs of various industries such as security, command, transportation, public safety, energy, education, and conferences
2. It adopts Linux system distributed architecture design and decentralized architecture. It can expand any number of nodes without servers and master nodes. Each node is independent and Interference with each other, reduce system operation risk, and reduce maintenance costs
3. Fanless silent design, supports independent installation in 1U cabinet or installation of 2 units side by side at the same time
4. Each node unit uses H.265 data stream codec chip and is backward compatible to ensure the smooth operation of the system
5. Video input: support RTSP, RTMP protocol, private protocol, 2-way HDMI, embedded audio synchronous or asynchronous input, support port backup; support 1-way encoding, 1-way HDMI loop output
6. Audio input: support AAC, G.711.G.726, private protocol, support CBR/VBR, support frame rate adjustable 1-60fps , audio input interface, embedded audio synchronous or asynchronous input, supports volume adjustment, supports synchronous, asynchronous and mixing modes; supports multi-channel audio mixing playback, and lossless sound quality
7. With 1 power indicator, 1 video signal indicator, 1 network status and signal transmission status light, 1 factory reset button, 3 USB 2. 0 interfaces, 1 Gigabit network port, 1 Gigabit optical port, 2 HDMI video input and output interfaces, 2 3.5mm audio input and output interfaces, 1 RS232 interface, 1 RS485 interface, 3 IR/IO
8. Each node has ≥3 USB ports for connecting to computers. KVM function can be realized without adding additional hardware
9. Supports various signals such as HDMI, DVI, VGA, etc. The input signal resolution supports up to 1920x1080@60Hz, and is backward compatible
10. Supports fixed bit rate transmission, with an adjustable range of 128kbps~40Mbps
11. Supports unicast and multicast
12. Supports H.264 and H.265 IPC encoding cameras. IPC network camera signal access is directly output to the large screen, without the need for a third-party transcoding server, and supports pan/tilt zooming, zooming out, left and right rotation, etc.
13. Supports pushing the large screen from the seat end, and can push any camera in the list through the local seat The video source can be pushed to the local or remote splicing large screen for full-screen display, and can be opened, roamed, superimposed, drawn, etc., and the signal source and virtual screen can be previewed in real time
14. When opening the large screen window, it can be opened in regular windows such as 2*2 and 3*3, and it can also be opened irregularly by manually dragging the window layout

15. Support seat video voice intercom and text chat, and seats can directly communicate one-to-one through video, voice and text; support broadcasting between seats, seats can talk one-to-many, and seats can speak to the entire hall environment
16. Support multi-party conference mode, support ≥16 operators to enter the conference interface, and support 16-channel mixing, and participants can be added and removed at any time during the meeting
17. Supports pre-operation mode on the agent side, supports layout in the virtual screen area, the picture adjustment process will not be displayed in real time on the large screen, when the push screen button is clicked, the adjusted layout can be displayed on the screen with one click to prevent misoperation
18. Supports remote KVM control, the agent side can remotely control the computer in the computer room and switch it on and off, and can control up to 16 windows of different signal sources at the same time; has manual and automatic start control modes
19. Supports mutual signal request and push between agents; supports three-level authority management; supports signal capture of large screens; supports large screen partition management; supports agent side and large screen plan saving and retrieval
20. Supports multiple login methods (account password, fingerprint, face recognition login), with seat memory function, agents are not limited to the current seat, and the original layout is retained when logging in at any seat, without the need to re-layout
21. Supports message queue prompts on the seat side; signal up and down, other message delivery and other reminders
22. Supports OSD top and bottom menu bars, and can complete all tasks such as screen push, seat push, takeover, control, request, visual intercom, etc. with just the mouse, with computer-like operation experience, and can also support shortcut key operation
23. The system scene can provide a one-key recovery function; the node device has programmable storage capabilities, and can automatically restore the system to the state before power failure after power failure and restart, such as: volume, large screen switch, signal position, lighting environment, etc.
24. Supports local viewing of node status by seats, and can view the version information of its own node, device IP, server IP, CPU and memory usage, network rate, running time, etc. without mobilizing other software
25. Supports distinguishing channel status modes by channel frame color, including takeover, control, reception, no signal and other border colors, each border has no less than 11 color options, supports changing the width of the signal frame, and supports up to 3px. The border can also be hidden
26. Supports setting the position and size of the floating ball of each signal channel. The position information includes three settings: low, medium and high. The size includes three settings: large, medium and small. It can be set according to the operator's habits
27. Supports OSD superposition display of device name, time, station logo, etc.; supports dual station logos, and can modify the station logo in text
28. Supports node LCD status display, which can display node name, IP address, running status, etc.
29. The node supports the same encoding and decoding. The seat output node can also support the acquisition of signal source while outputting at the seat end
30. Supports automatic recognition of EDID extended display identification and supports HDCP
31. Supports POE and external power supply dual power supply mode
32. Supports upgrading the encoding device through the network
33. Supports optical network hot backup
34. Equipment power consumption ≤10W
35. Working temperature -10℃~60℃, working humidity 10%~90% without condensation