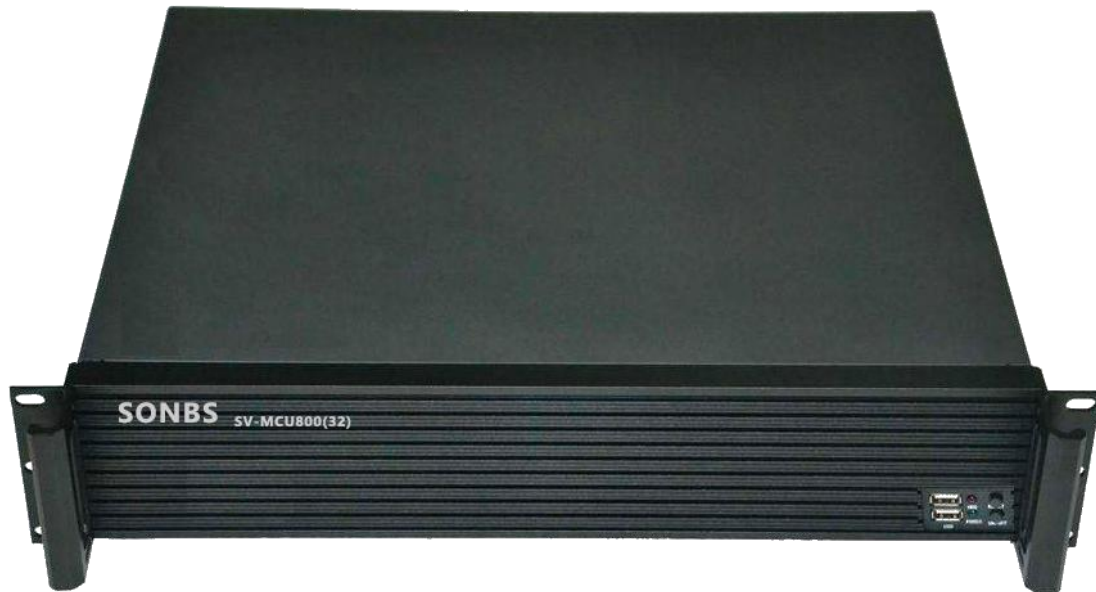


## SV-MCU800 32/16/8 HD Video Conference Cloud Service

### Platform (32/16/8-channel MCU)



#### Hardware features:

1. Equipment using embedded operating system, non-Windows operating system; using telecom-grade design, modular design, can realize the equipment online 7 \* 24 hours of uninterrupted work;
2. Bandwidth rate support 64Kbps-8Mbps; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolutions; support for mixed speed, mixed video format, mixed protocol conferences;
3. Support H.264, H.264MP, H.264HP, H.265 video codec protocols, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS\_16K, OPUS\_24K, OPUS\_48K audio codec protocols, audio quality up to 48KHz;
4. Support for more than 30 groups of physical conferences in a single machine, supporting 48/64/96/128 channels of 1080P concurrent users;
5. Support MCU cascade function, cascade mode can support more than 1024 users into the meeting; support MCU to form a resource pool, forming MCU distributed architecture, to achieve unified management of MCU resources, dynamic allocation of MCU resources, mutual backup;
6. Support H.239 digital dual-stream technology, both primary and secondary streams can reach 1080P;
7. Support IPV4 and IPV6 protocols, with the ability to cross routers and firewalls to ensure system security, support for QOS, NAT, H.245 tunneling and other parameter settings;
8. Support dual hot standby, you can specify a standby server, when the main server is out of network, power failure and other abnormal circumstances can not work, the central

management server will transfer the meeting and related data on the main server to the standby server to carry out, the switching time is less than 10s;

### **Software Features:**

1. Support ITU-T H.323, IETF SIP protocol, compatible with H.323, SIP, RTSP, SCM and other protocols of equipment mixed into the meeting, with good compatibility;
2. support for a variety of common multi-screen layouts, up to 64 screens per screen; support for automatic screen splitting function;
3. Support screen polling function, you can specify the polling window screen, polling venue, polling times and time, etc;
4. Support for direct viewing of live conference video in the conference control interface, support for the integration of remote presentation of the terminal screen of the conference venue; and support for the snapshot function of the preview screen of the conference venue, saved to the server as a jpg image;
5. Built-in GK module, supporting terminals to register E.164 extension numbers and call each other using E.164 extension numbers;
6. Built-in conference recording module for real-time recording and storage of multiple conference videos and audios;
7. The server comes standard with 128G storage space; supports extended storage capacity up to 4TB; supports external FTP server storage;
8. Support video roll-call function, you can set the roll-call theme, screen layout, main venue, main venue display window, and the venue being roll-call display window, and generate a complete roll-call result excel sheet for downloading and saving after the roll-call;
9. Support broadcast venue function, in broadcast venue mode, the meeting layout is switched to the mode that only the broadcasted venue is displayed, and all the meeting venues can only watch the screen of the broadcasted venue;
10. Support RTSP video stream docking device, support monitoring IP cameras through RTSP video stream docking method directly into the meeting, can be seamlessly docked with the monitoring platform;
11. support network ping test, route tracking test, network bandwidth test, etc. on the background web management interface; support audio, mainstream, auxiliary stream network status real-time display, including packet loss rate, code stream, frame rate, delay and other parameters;
12. Support FEC forward error correction function, when the data packet loss rate is less than 20% and not continuous packet loss, the screen will not appear blurred or seriously mosaic; ensure the smoothness of the meeting;
13. Support live streaming function, support RTMP, HLS live streaming method; can arbitrarily select a venue in the meeting or synthetic media stream as the live source, and can switch the live source at any time;
14. Support browser or player to access the live link address to watch the meeting live, support live access password management function; live broadcast live viewing number is not limited by the number of concurrent, through the background management can view the number of viewers;

15. Support for AES 128-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference;
16. Provide a complete SDK development kit for the system, which can be used to book meetings, obtain meeting lists, stop meetings, delete meetings, call offline members, set members to watch content, set recording, set live streaming, set polling, adjust cameras, send scrolling messages, set banners, switch screen layouts, control the speaking rights of each meeting room, etc. through the SDK, which can be seamlessly integrated with third-party systems;
17. Meeting notification method supports notification via SMS or via email, corresponding notification messages can be set for meeting convening, meeting change and meeting cancellation; for mobile APP client, support APP message notification push function; ▪ Support English subtitles, banners, scrolling messages, displaying meeting name to meet the auxiliary display function;
18. Support for Chinese and English subtitles, banners, scrolling messages, displaying the name of the venue to meet the auxiliary display function of the meeting;
19. Support FEC forward error correction function, when the data packet loss rate is less than 30% and not continuous packet loss, the picture will not appear blurred or serious mosaic situation;
20. Support video soft terminal to access the conference and achieve data dual-streaming function, soft terminal supports installation in Windows or MAC computer version, IOS or Android mobile phone tablet end;
21. Support intelligent stream control function, including notification coding and code rate auto-adjustment function. After the notification coding is activated, MCU will automatically adjust the coding parameters of the terminal according to the window size displayed on MCU, and after the code rate auto-adjustment function is activated, MCU side will automatically adjust the coding code rate of MCU according to the packet loss and delay of the sent signal; ▪ Support intelligent stream control function, including notification coding and code rate auto-adjustment function;
22. With rich audio processing mechanism and management mode, supporting lip-synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation and venue speech management; supporting automatic mute function for meeting entry and background management terminal supporting all mute, all speech and all shutdown functions;
23. support audio and video coding selection function, can realize audio-video synchronous coding or pure audio coding;
24. Support venue breakpoint re-invitation function; when choosing always invite, the MCU will re-invite the terminal every 10 seconds after the terminal abnormally drops out until the terminal joins the meeting; when choosing limited invitation; the number of invitations needs to be set and the MCU will no longer invite if the invitation exceeds the set number of times; when choosing no invitation, the MCU will not actively invite the terminal to the meeting after the terminal abnormally drops out;
25. Support remote control of the camera up, down, left and right, focus and zoom operations of the terminal in the background;

26. Support the function of setting and displaying the name of the venue, which can set whether the name of all venues is displayed in the conference screen and the display position of the name, font colour, background colour, font size and font transparency;
27. support banner function, you can add banners on the meeting screen, and you can set whether to enable banners and the font size, font colour, background colour and transparency of banners;
28. support for the scrolling message function, which allows you to send scrolling messages and set whether to enable scrolling messages and the font size, font colour, background colour, transparency and number of scrolls for scrolling messages;
29. Support meeting management functions such as extending meeting time, ending meeting, cascade screen setting, designating chairman venue, auto fill, switching layout, audio receiving, audio sending, video receiving, video sending, video adjusting, information query, naming speakers, depriving chairman, hanging up/calling, group management venue, designating viewing screen, etc. for the meeting being held;
30. Adopt Chinese and English management interface, can realize Chinese and English WEB management, in line with Chinese usage habits; realize equipment management, user management, conference management through Web, support Telnet, ssh and other remote maintenance methods, partition management according to user characteristics, regional characteristics;
31. Support system hardware monitoring function, able to monitor the working status of each hardware module of the system in real time, and have abnormal alarm function;
32. support for remote control and remote upgrade functions;
33. support for hierarchical user rights management, assigning different management and usage rights to different users
34. support for voice priority and QOS policy mode;
35. support for device management, user management and conference management via Web, support for Telnet, ssh and other remote maintenance methods, and zoning management according to user characteristics and regional characteristics;
36. support for mixed speed, mixed video formats, mixed protocol conferencing;
37. support for multi-screen, common multiple multi-screen layouts, support for automatic split-screen;
38. support for multi-level network video management, also support for flat network management;
39. Support for video communication protocol H.323, video codecs such as H.264HP, audio codecs such as G.711 and G.722;

### Technical Parameters:

Capacity	8/16/32 users
Video Codec Protocol	H.264, H.264MP, H.264HP, H.265
Audio Codec Protocol	G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	3 RJ45 standard network ports, 1 optical port, 100M/1000M, multi-network, cross-segment converged communication;

	converged communication support;
Environmental requirement temperature	0°C ~ 35°C (working status) -40°C ~ 55°C (non-working status)
Relative humidity	10% ~ 80% (working state) 0% ~ 95% (non-working state) (non-condensing)
ambient noise	Less than 50dBA
Equipment size	2U standard chassis 484*440*88mm
weight	15Kg