

Huawei vMCU Suite

One-stop Video Communications Solution for SMBs



Huawei's virtual Multipoint Control Unit (vMCU) brings together all the video communications functions needed by Small and Medium-sized Businesses (SMBs). The server integrates conference management, media processing, address book, firewall traversal, and other functions in a single box. By flexibly connecting to hardware endpoints and soft clients of any standard protocols, the system enables communication within and outside the organization.



Highly-integrated

5-in-1:

- The vMCU integrates conference management, media processing, address book, registration, and traversal capabilities in a single server.

Fast deployment:

- The system is easy to configure, with software and hardware pre-integrated.

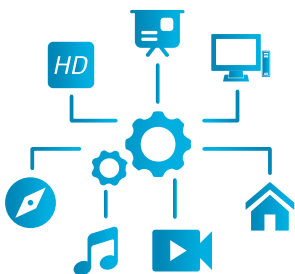
Convenient networking, flexible access

Flexible networking:

- The basic model supports 20 720p ports (equivalent to 10 1080p ports or 40 SD ports), scalable to 60 ports (720p)
- H.460 and ICE-compliant firewall traversal enables interoperation with video conferencing systems of other vendors, meeting requirements of communication across different networks

Full media access:

- Convergence of video, audio, content and data allows seamless collaboration
- Supports hybrid conference involving conference rooms, desktop, and mobile clients, with support for hybrid networking of H.323 and SIP.
- Works with multiple web browsers, including IE, Firefox, and Chrome.
- Supports both Advanced Video Coding (AVC) and Scalable Video Coding (SVC) for compatibility with a variety of endpoints



Convenient services

Easy to join a conference:

- The vMCU provides multiple ways to initiate or join a meeting, SiteCall, 'one button to join,' and Uniform Resource Identifier (URI) calling.
- The platform supports automatic continuous presence, as well as administrator control, endpoint control, and Interactive Voice Response (IVR).

Experience guarantee:

- With H.264HP technology, the system maintains image quality in video conferences even if available bandwidth decreases by 50%.
- H.264 SVC and SECTM 3.0 technologies help ensure smooth audio and video conferencing even with 20% packet loss when working with Huawei endpoints.
- The vMCU offers easy operation and maintenance: One-button deployment, signaling tracking, failure message export, and unified upgrade.



HUAWEI vMCU Suite

Technical Specifications

Standards and Protocols

Multimedia Drame protocols	ITU-T H.323, IETF SIP
Video Encoding and Decoding Protocols	ITU-T H.264, H.264 HP, H.264 SVC, and H.263, H.263+
Audio Encoding and Decoding Protocols	AAC-LD, G722.1*, G722.1C*, G711a/u, G722, G729A, G729AB, iLBC, and Opus
Dual-stream Protocol	ITU-T H.239, BFCP
Data meeting Protocol	T.120
Network transmission Protocols	IPv6/IPv4, TCP/IP, RTP, RTCP, HTTP/HTTPS, SNMP, and DNS/DDNS
Other Standards and Protocols	H.225, H.235, Q.931, H.245, H.281, FECC, RFC2833, DTMF, SRTP, TLS, T.140, NTP, SDP, H.460, ICE, STUN, TURN, Huawei patented SNP, SIP TRUNK, SSH, and LDAP/H350
Video Resolution	Up to 1080P60
Presentation Resolution	SVGA (800*600) , XGA (1024*768) , SXGA (1280*1024) , WXGA (1280*800) , WXGA+ (1440*900) , 1366*768, 720P, and 1080P

System Functions and Features

Conference management	<ul style="list-style-type: none"> Support for scheduling from the Web interface Support for SiteCall, ad hoc conference, conference activation, and recurring conference Support for Huawei patented SiteCall, ad hoc conference, URI calling, IP address, audio/video IVR, universal access number Support for administrator control, chair assignment, and chair control Caption overlay, meeting status icon overlay Add or delete a site, hang up/call a site, mute speakers, mute microphones, volume adjustment, broadcast a site, view a site, and set continuous presence mode
Media access	<ul style="list-style-type: none"> Support for conferences based on universal transcoding, SVC, or both Support for video conference, data conference and hybrid conference Switchover from point-to-point to multi-point meeting Automatic on-table and continuous presence, with up to 16 panes and 12 modes of continuous presence Support for content transcoding Collaboration features: Electronic whiteboard, shared screens, and document transmission
Call control and firewall traversal	<ul style="list-style-type: none"> Standard H.323 Gatekeeper/SIP Server/SIP Proxy H.460 18-, 19-compliant (H.323) Firewall ICE/STUN/TURN-compliant (SIP) Huawei patented SNP traversal-compliant Support for video firewall traversal of dual network interfaces

System Features

Basic Capabilities	<ul style="list-style-type: none"> 20 x 720p ports (10 x 1080p ports or 40 x SD ports) 50 registrations (20 for endpoints, and 30 for soft clients) Firewall traversal traffic: 30M bps
Expandability	<ul style="list-style-type: none"> Up to 60 x 720P MCU ports (additional servers required) Up to 120 registrations (60 for endpoints, and 60 for soft clients)

Network Adaptability

	<ul style="list-style-type: none"> Maximum: 8Mbps/s IPv6/IPv4 SECTTM3.0 super error correction technology ensures smooth video during 20% packet loss IRCTTM technology adjusts the bandwidth of video stream for qualified video conferencing H.235 encryption for signaling and media (H.323) and TLS/SRTP encryption (SIP)
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System Management and Maintenance

	<ul style="list-style-type: none"> End-to-end conference surveillance in real time, including packet loss, jitter, latency, and continuous packet loss Automatic device detection; batch configuration and modification of parameters; software version management and batch upgrades; resource statistics; abnormal alarms; operation logs
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Physical Features

Physical Dimension (height x width x depth)	447mm x 708mm x 86.1mm (2U)
Weight	27kg
Power Module	Two hot-pluggable power supplies for 1+1 backup
Power Consumption	300W
Noise	45.1dB (at 23 C operating temperature)
Operating temperature	5 C to 45 C
Operating humidity	8% to 90%