

HUAWEI VP9650 MCU



HUAWEI VP9650 is a cutting-edge MCU with high-capacity, high cost-effectiveness, flexible ports utilization and high scalability. It is an industry-leading MCU to support up to 4K universal transcoding. Interoperability with various types of endpoints intelligently, VP9650 delivers users an ultimate videoconferencing experience

High performance and universal transcoding bring an ultimate experience

The industry-leading MCU supporting 4K(3840×2160) universal transcoding provides an ultimate videoconferencing experience for participants

H.265 and H.264 High Profile saves bandwidth by 50%
AAC-LD realizes CD-quality audio effect and three-channel brings sound localization
Intelligent transcoding for content sharing across different types of devices

High capacity, Standard-based, Scalable

High capacity, scalable up to 192 ports with universal transcoding
Supports multilevel cascading, multichannel cascading and conference recording
Standard-based and open: Supports H.323, SIP and convergence conference of Telepresence, HD/SD endpoints, mobile devices and audio endpoints
SOAP-based API for integration with third-party systems
Maximizes resource utilization and improves ROI by flexible resource allocation

Easy to Deploy and Use

Multiple Methods for conference initiation, such as HUAWEI SiteCall™, Ad hoc, and web-based scheduling
Plenty of conference control functions, including Automatic Continuous Presence, Voice Activation, Chair control, DTMF Control, Audio/Video IVR, H.239 Content Sharing Token, and FECC

Secure, Reliable and Powerful QoS

H.264 SVC and SEC 3.0 ensure smooth videoconferences even if the packet loss is up to 20%
Dynamic jitter buffer up to 1000 ms ensures conference quality
IRC™ provides the best conference experience with low network bandwidth
Ensures conference data security via H.235 (AES256), SRTP/TLS(AES256), HTTPS and SSH
MCU, Power, Media board, Network interface and Chipset hot spare

HUAWEI VP9650 Specifications

Video Standards and Protocols
ITU-T H.265, H.264, H.264 HP, H.264 SVC, H.263, H.263+, H.263++ ITU-T H.239, BFCP
People Video Resolution
Resolution: QCIF, CIF, 4CIF, 288p, 360p, 720p, 1080p, 4K(3840x2160) Video Frame Rate: 25fps, 30fps, 50fps, 60fps 16:9 and 4:3 aspect ratio
Content Video Resolution
Coding/Decoding resolution: QCIF, QVGA, CIF, VGA, 4CIF, SVGA(800x600), XGA(1024x768), SXGA+(1600x1200), 288P(512x288), 360P(640x360), 396P(704x400), 720P, 1080P, 4K(3840x2160) Decoding resolution: WXGA, SXGA, XGA+, 1920x1200, Content adaptation
Audio Standards and Protocols
AAC-LD, AAC-LC, G.722.1*, G.722.1C*, G.711a/u, G.722, G.728, G.729A, G.729AB, G.719, iLBC, Opus Three-channel Stereo
Other Supported Standards
H.221, H.225, H.235, H.242, H.243, H.245, H.281, H.283, FECC, RFC2833, DTMF, SRTP, TLS, T.140, NTP
Network
Standards and protocols: ITU-T H.323, IETF SIP Network standards: IPv6/IPv4, TCP/IP, FTP/FTPS, RTP, RTCP, HTTP/HTTPS, SNMP, TELNET, SSH, DNS/DDNS Bandwidth for one port: 64Kbps~8Mbps Network Interfaces: <ul style="list-style-type: none">• GE, 1000 Mb, RJ45• FE, 100 Mb, RJ45• RS232, RJ45• SFP, Gigabit optical fiber interface Line Types: IP
Management Tools
Support SSH Remote upgrade Resource statistic Hardware diagnosis Support CDR (Call Detail Record) Data export and import Support Conference configuration template Status monitor
Physical dimensions
Net Dimension: 436mm(W) × 420mm(D) × 219.5mm(H), 5U Package Dimension: 720mm(W) × 720mm(D) × 470mm(H), 5U Net weight: 21 kg Package Weight: 45 kg AC input: 100 ~ 240V AC 50/60Hz DC input: -48 ~ -60V Max power consumption: 1100W
System Capacity
Up to 12 H.265 4K ports in CP or 48 H.264 1080p60 ports in CP or 96 H.264 1080p30 ports in CP or 192 H.264 720p30 ports in CP

Additional audio ports: as many as 1080p30 ports RSE-M: Up to 30 way dual streams recordings + 10 way 720p live streams + 2000 way web viewers
IP QoS
DiffServ (DSCP), IP Precedence, ARQ SEC™3.0 (Super Error Concealment) IRC™ (Adaptability Intelligent Rate Control) Auto adaptation enabling Priority settings of QoS
Security
Conference password HTTPS ensures the safety for Web accessing H.235 (AES256)and SRTP/TLS(AES256) encryption
Approval and Compliance
CE, WEEE, RoHS, REACH, FCC, UL, VCCI-A, GOST, C-TICK
Highlights
Universal transcoding for Telepresence CP on each port, Up to 24 CP Auto Continuous Presence Flexible ports 48 modes of Continuous Presence Up to 5-level multichannel cascading Ad hoc and Audio/Video IVR HUAWEI SiteCall™ Schedule conferences via Web and Outlook Email notification URI dialing Plenty of conference control functions Chair control Endpoint control via DTMF Message overlay Mute video Support camera control Support content lock Support video source lock Intelligent negotiation: Best utilization of endpoint's ability IVR Language: English, French, German, Spanish, Russian, Japanese, Chinese Web UI Language: English, Chinese
Operating Environment
Operating temperature: -5°C ~ 45°C Relative humidity: 10% ~ 95% (Non - Condensing) Air pressure: 63 ~ 106KPa Reliability MTBF: >100,000 hours MTTR: < 0.5 hour

*: G.722.1/G.722.1C, licensed from Polycom®