

# HUAWEI VP9630 VP9650 VP9660



HUAWEI VP9600 series is a cutting-edge MCU with high-capacity, High cost-effectiveness, flexible ports utilization and high scalability. It is the first MCU in the industry to support up to 1080p60 universal transcoding. Interoperability with various types of endpoints intelligently, VP9600 delivers users an ultimate videoconferencing experience.

## High performance and universal transcoding bring an ultimate experience

The first MCU in the industry supporting 1080p60 universal transcoding provides an ultimate videoconferencing experience for participants  
 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

Smooth scalable, high capacity  
 Support multilevel cascading, multichannel cascading and conference recording  
 Standard-based and open: Supports H.323, H.320, SIP, TIP and convergence conference of Telepresence, HD/SD endpoints, mobile devices and audio endpoints  
 Integrated with Huawei eSpace Microsoft Lync2013™/Skype for business, IBM Sametime UC and Skype  
 SOAP-based API for integration with third-party systems  
 Maximize resource utilization and improves ROI by flexible resource allocation

## Easy to Deploy and Use

Embedded GK, Web and role-based management  
 Multiple modes for firewall traversal, such as H.460, static NAT, video firewall option and SNP™  
 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  
 Ensure conference data security via H.235 (AES256), SRTP/TLS(AES256), HTTPS and SSH  
 Multi-level hot spare

Sales Item	Configuration	Description
VP9660-8	Frame + power + fans+ ECCB(control board) + media board + 8 1080p30 port licenses	Smooth scalable
VP9650-8	Frame + power + fans+ ECCA(with control board and media board integrated) + 8 1080p30 port licenses	Smooth scalable
VP9630-8	Frame + power + fans+ ECCA(with control board and media board integrated) + 8 1080p30 port licenses	Smooth scalable
Media Board	Hardware resources: 24 ports at 1080p30 +24 audio ports	Use with port license
ECCB	Main control backup board without media processing capability	
ISDN Board	64 PRI or 256 3BRI(384k)	Only for VP9660 and VP9650, each MCU supports one board only
RSE-M Board	4 way dual streams recordings + 4 way 720p live streams + 500 way web viewers, can be scalable with license	Only for VP9660 and VP9650, each MCU supports one board only
1 port License	1 1080p30 port license+ 1 audio port license	Need hardware resources, and possibly need to purchase Media Board
4 ports License	4 1080p30 ports license+ 4 audio ports license	Need hardware resources, and possibly need to purchase Media Board

## Note:

- VP9660-8, the basic model can be scalable to seven Media boards, two ECCB board and one ISDN board
- VP9650-8, the basic model has 2 more slots to be scalable
- 1 port at 1080p60 = 2 ports at 1080p30 = 4 ports at 720p30 = 8 ports at 4CIF



# HUAWEI VP9630 VP9650 VP9660 Specifications

	VP9630	VP9650	VP9660
Capacity	<ul style="list-style-type: none"> <li>Flexible ports</li> <li>Up to 12 HD 1080p60 ports in CP</li> <li>=24 HD 1080p30 ports in CP</li> <li>=48 HD 720p30 ports in CP</li> <li>=96 4CIF ports in CP</li> <li>VOIP port</li> </ul> Quantity same as that of 1080p30 ports	<ul style="list-style-type: none"> <li>Flexible ports</li> <li>Up to 36 HD 1080p60 ports in CP</li> <li>=72 HD 1080p30 ports in CP</li> <li>=144 HD 720p30 ports in CP</li> <li>=288 4CIF ports in CP</li> <li>VOIP port</li> </ul> Quantity same as that of 1080p30 ports <ul style="list-style-type: none"> <li>ISDN</li> <li>Up to 64 PRI or 192 3BRI(384k) ISDN access</li> <li>RSE-M</li> <li>Up to 30 way 1080P60 recordings</li> <li>Up to 10 way 720P live streams</li> <li>Up to 2,000 viewers @ 256 Kbps</li> <li>2T capacity (1T+1T hot backup)</li> </ul>	<ul style="list-style-type: none"> <li>Flexible ports</li> <li>Up to 96 HD 1080p60 ports in CP</li> <li>= 192 HD 1080p30 ports in CP</li> <li>= 384 HD 720p30 ports in CP</li> <li>= 768 4CIF ports in CP</li> <li>VOIP port</li> </ul> Quantity same as that of 1080p30 ports <ul style="list-style-type: none"> <li>ISDN</li> <li>Up to 64 PRI or 256 3BRI(384k) ISDN access</li> <li>RSE-M</li> <li>Up to 30 way 1080P60 recordings</li> <li>Up to 10 way 720P live streams</li> <li>Up to 2,000 viewers @ 256 Kbps</li> <li>2T capacity (1T+1T hot backup)</li> </ul>
Dimension	Net Dimension: 442mm(W) × 450mm(D) × 86.1mm(H), 2U Package Dimension: 780mm(W) × 580mm(D) × 260mm(H), 2U	Net Dimension: 436mm(W) × 420mm(D) × 219.5mm(H), 5U Package Dimension: 720mm(W) × 720mm(D) × 470mm(H), 5U	Net Dimension: 436mm(W) × 420mm(D) × 886.2mm(H), 20U Package Dimension: 720mm(W) × 720mm(D) × 1125mm(H), 20U
Weight	Net weight: 16 kg Package Weight: 22 kg	Net weight: 21 kg Package Weight: 45 kg	Net weight: 58 kg Package Weight: 107 kg
Power	AC input: 100 ~ 240V 50/60HZ Max power consumption: 400W	AC input: 100 ~ 240V 50/60HZ DC input: -48 ~ -60V Max power consumption: 1100W	AC input: 100 ~ 240V 50/60HZ DC input: -48 ~ -60V Max power consumption: 3000W
Hot spare	MCU, power, network interface, chipset	MCU, power, media board, network interface, chipset	MCU, power, control board, media board, network interface, chipset

## Video Standards and Protocols

ITU-T H.264, H.264 HP, H.264 SVC, H.263, H.263+, H.263++, H.261  
ITU-T H.239, BFCP

## People Video Resolution

Resolution: QCIF, CIF, 4CIF, 288p, 360p, 720p, 1080p  
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  
Decoding resolution: WXGA, SXGA, XGA+, 1920x1200  
Content adaptation  
Content does not occupy MCU's port

## Audio Standards and Protocols

AAC-LD, AAC-LC, HWA-LD, G.722.1\*, G.722.1C\*, G.711, G.722, G.728, G.729A, G.729AB, G.719, iLBC  
Three-channel

## Other Supported Standards

H.221, H.225, H.235, H.242, H.243, H.245, H.281, H.283, H.460, TIP, FECC, RFC2833, DTMF, SRTP, TLS, T.140, NTP

## Network

Standards and protocols: ITU-T H.323, H.320(VP9660&VP9650 support), 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:  
• GE, 1000 Mb, RJ45  
• FE, 100 Mb, RJ45  
• RS232, RJ45  
• SFP, Gigabit optical fiber interface  
PRI E1 or T1: 75/120 ohm, SMB/RJ45  
Line Types: IP, ISDN(VP9660&VP9650 support)

## 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

## 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  
SNP transversal between private and public networks  
H.460/Static NAT transversal

## 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

## Operating Environment

Operating temperature: 0°C ~ 45°C  
Relative humidity: 5% ~ 90% (Non - Condensing)  
Air pressure: 63 ~ 106KPa  
Reliability MTBF: >100,000 hours  
MTTR: < 0.5 hour

## Highlights

Embedded Web, embedded GK(VP9650&VP9630 support)  
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(VP9650&VP9630 support) 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  
Firewall traversal: H.460, static NAT, HUAWEI SNP, Video firewall option  
Integrated with UC: Huawei eSpace, Microsoft Lync 2013™/Skype for business, and IBM Sametime  
Intelligent negotiation: Best utilization of endpoint's ability  
Language: English, French, German, Spanish, Russian, Chinese, Japanese

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