

KDV8000C Multipoint Control Unit

“All in one” powerful functionality in MCU allows to implement an IP based videoconferencing network fast and easily.



• Quality Conference Result

With efficient H.264 video codec and wideband audio processing technologies, KDV8000C can reach a DVD image resolution for videoconferencing effect and support H.239 dual video streaming standard, which allows multiple sites to share PC images with resolution of up to 1024 × 768.

• Flexible Access Capacity

KDV8000C is configured of access capacity of 8 ~ 64 channels, with convention of 16 group meetings at the same time. Each access node supports a streaming bandwidth up to 4 Mbps. It is very suitable to multiple access networks with different bandwidth conditions such as the Internet, leased lines and LANs.

• Excellent Network Adaptability

With the embedded proxy service, KDV8000C supports NAT/firewall transversal and allows to deploy endpoints at any place without interference of network security policy. Using Intelligent Packet Loss Recovery (IPLR) and QoS technologies, KDV8000C ensures operation stability under various network environments, even through ADSL access from a remote site, your access quality to conference can also be maintained satisfactory.

• Powerful Conference Features

With a layout of 4, 9, or 16 sites in Continuous Presence and function of Intelligent Audio Mixing, KDV8000C supports a perfect interactive conference with multiple parties. Conference template and conference booking command allow you to originate a conference with number of participants and various preset parameters, anytime just by simple button click. Furthermore, you may use Meeting Control System (MCS), a friendly GUI software for a complete conference management.

• High Security and Reliability

KDV8000C gives a high-reliable 128-bit encryption mechanism to insure conference information security. Its embedded design architecture and strict authentication policy can completely protect system safety and prevent unauthorized access.

• Cost Effective and Protect Investment

With a single hardware platform, embedded design architecture integrated with services such as GK, proxy and T.120, KDV8000C is an all-in-one solution for functions provided by multiple devices or servers otherwise. Therefore, your system setup and maintenance cost will be tremendously reduced. Since the system can be upgraded through software to higher version in terms of capacity, new protocols and features, your investment is fully protected.



KDV8000C is a high performance embedded and integrated Multipoint Control Unit (MCU), which provides an IP-based videoconferencing bridging platform. This innovative unit is combined with integrated services such as Gatekeeper, proxy and T.120, no need of deployment of any additional device or server in existing network environment. No matter through Internet, VPN (Virtual Private Network) or leased lines, KDV8000C performs cost-effectively with the most concise architecture to replace the conventional “platform + additional servers” structure. KDV8000C supports efficient H.264 video coding/decoding technology and H.239 dual video stream, it also provides powerful media processing capabilities such as Continuous Presence and Intelligent Audio Mixing. After all, KDV8000C gives you a full variety of application features for your videoconferencing exercise.

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Technical Specifications:

Standards Followed

System standard: H.323
Video standard: H.261, H.263, H.263+, H.264, MPEG-2, and MPEG-4
Audio standard: G.711, G.722, G.722.1 Annex C/Polycom® Siren14™, G.722, G.723.1, G.728, G.729, MP3
Dual video standard: H.239
Network protocol: TCP/IP, Telnet, HTTP, FTP, SNMP, DHCP, RTP/RTCP
Other standards: H.225, H.231, H.235, H.241, H.242, H.243, H.245, H.281, T.120

System Capacity

Nine optional configurations: 8, 12, 16, 24, 32, 40, 48, 56, and 64 users
Supporting a maximum of 16 groups of conferences at the same time

Network Interface

16 users or less: two 10/100M interfaces
24 users or more: one 10/100M interface, and one 10/100/1000M interface (electrical interface)

Conference Rate

Up to 4 Mbps

Video Resolution

QCIF (176 × 144)
CIF (352 × 288)
4CIF (704 × 576)
VGA (640 × 480)
SVGA (800 × 600)
XGA (1024 × 768)

Continuous Presence

2, 3, 4, 9 and 16 pictures, N + 1 pattern style
Dynamic picture auto-trace
Speaker indicated by frame color

Audio Features

Intelligent Audio Mixing
Mute and dumb control
Voice Active Detection

Conference Functions

Virtual meeting room
Conference template
Conference booking
Director control, chairman control, voice activation, auto polling
Endpoint join-in request, chairman request, speaker request, and chime-in request

Cascade Conference

Supporting visual MCS software

Caption

Conference caption scroll
Configuration and management in WEB mode
Caption entry or file load
Group sending or selective sending

Dual Video Stream

H.239 dual video stream
Adjustable dual stream bandwidth allocation
Originate dual stream right setting

Data Conference *

T.120 standard conference
Rate range: 64Kbps ~ 2Mbps
Whiteboard, application sharing, file transfer and multi-party chat
Supporting the access of a maximum of 32 parties
* This function module is optional

Embedded GK

Endpoint registration
Address resolution
Call control
Bandwidth control
Regional management

Network Adaptability

NAT/firewall transversal
IPLR
QoS (DiffServ, IP Precedence)
Access in multiple network sections
Multicast conference

Security Features

H.235 conference encryption
128-bit AES encryption
Conference password protection, conference lock protection
Management User authentication and authorization
Multicast user authentication

Management and Maintenance

Configuration in interface mode
Remote configuration/upgrade
System log

Electric Features

Power consumption of integrated system: ≤ 50W
Power supply: AC (187 ~ 253V/47.5 ~ 52.5Hz)

Environmental Requirement

Ground resistance: ≤ 5 Ω
Operating temperature: 0°C ~ 45°C
Operating humidity: 10% ~ 90% (non-condensing)
Atmospheric pressure: 86 ~ 106 kPa

Physical Features

19-inch 1U rack
Height × width × depth: 44mm × 483mm × 310mm
Weight: ≤ 4.7 kg