CloudLink BOX 310-G/610-G Integrated Ultra HD Video Conference Terminal

Datasheet

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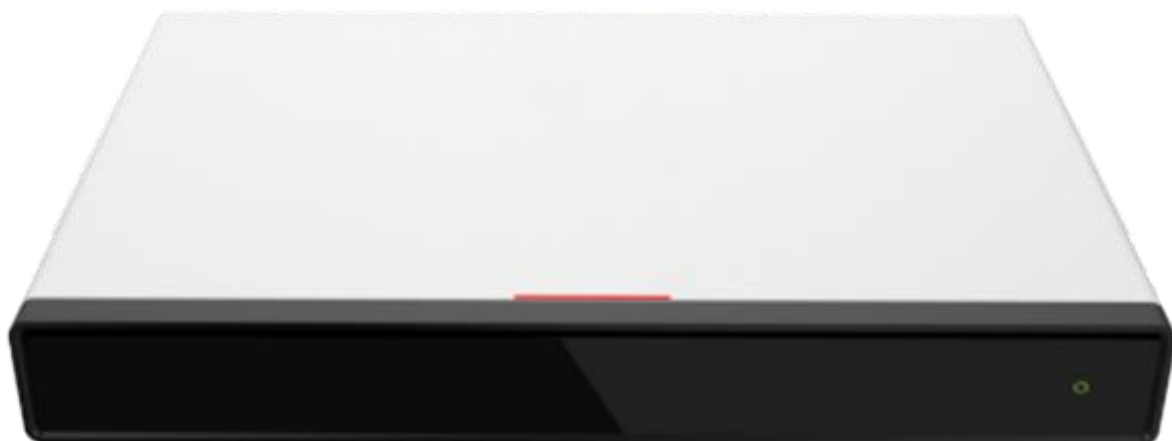
■▪ Product Overview

The CloudLink Box 310-G/610-G is a new generation of core technology, equipped with HarmonyOS, relying on high computing hardware platform architecture of ultra HD video conference terminal, with H.265 4K dual-stream audio and video media processing capabilities, to provide the best meeting experience. Rich audio and video interfaces can be adapted to various types of cameras and display devices to meet the integration requirements of various types of conference rooms.

■▪ Technical Specifications

Complete System Components	
Ultra HD codec,Ultra HD camera (optional), array microphone (optional), Touch touchscreen (standard on Touch), remote control (standard on remote), cable and power supply	
Communication Protocol	
Multimedia framework protocol	ITU-T H.323, IETF SIP
Video codec protocol	H.265 (including H.265 SVC), H.264 (including H.264 HP, H.264 BP, H.264 SVC), H.263, H.263+
Audio codec protocol	G.711A, G.711U, G.722, G.722.1C, G.719, G.729A, AAC-LD, OPUS
Auxiliary stream protocol	ITU-T H.239, IETF BFCP
Other communication protocols	H.225, H.235, H.241, H.245, H.350, H.460, RFC2833, LDAP
Network Transport Protocol	TCP/IP, RTP, RTCP, DHCP, DNS, SMTP, SNMP, SNTP, SSH, HTTP, HTTPS, TR-069

Video Features	
Video resolution	4K30
Other image features	Support PIP (picture-in-picture), POP (Picture out Picture) and other display modes VME Active Video Motion Enhancement Video Intensifier Image Intensifier (View Processing)
Audio features	Fast echo cancellation (AEC), Automatic noise suppression (ANS), Automatic gain Control (AGC), voice clarity (VoiceClear), voice enhancement (AudioEnhancer), support for lip synchronization

Security Stability	
Network adaptability	IPv4 and IPv6, DiffServ,URI calls Super Strong Error Correction (SEC), Packet Loss Retransmission (ARQ), Video Forward error correction (FEC), Intelligent Speed Regulation (IRC), Audio Backward Error Correction (PLC)
Network security	Signaling H.235/TLS encryption, media SRTP encryption Meeting access password, meeting control password, administrator password Support national secrets (SM2, SM3, SM4) Dual stream encryption Media streams of SIP/H323 calls support the encryption algorithm AES256
Firewall Traversal	H.460 Public-Private Network Traversal/Static NAT
Environmental Requirements	Temperature: 0℃ to 40℃ (working condition) Relative Humidity: 10% to 95%RH (working condition) Ambient noise: less than 46dBA SPL -40℃ to 70℃ (non-working condition) 5% to 95% RH (non-working)

Properties			
Model Number	Box 310	Box 610	Box 610-S
Locate	Business type	Professional	Secure
Application scenarios	Small and medium-sized meeting rooms	Medium and large conference rooms	Large and medium-sized meeting rooms
Moving image resolution	H.264 1080p 60fps, minimum bandwidth 1Mbps 1080p 30fps with a minimum bandwidth of 512Kbps 720p 60fps with a minimum bandwidth of 768Kbps 720p 30fps with a minimum bandwidth of 384Kbps H.265 4K 30fps, minimum bandwidth 2Mbps 1080p 60fps with a minimum bandwidth of 768Kbps 1080p 30fps with a minimum bandwidth of 384Kbps 720p 60fps with a minimum bandwidth of 512Kbps 720p 30fps, minimum bandwidth 256Kbps	H.264 1080p 60fps with 1Mbps minimum bandwidth 1080p 30fps with a minimum bandwidth of 512Kbps 720p 60fps with a minimum bandwidth of 768Kbps 720p 30fps with a minimum bandwidth of 384Kbps H.265 4K 30fps, minimum bandwidth 2Mbps 1080p 60fps, minimum bandwidth 768Kbps 1080p 30fps with a minimum bandwidth of 384Kbps 720p 60fps with a minimum bandwidth of 512Kbps 720p 30fps, minimum bandwidth 256Kbps	H.264 1080p 60fps with 1Mbps minimum bandwidth 1080p 30fps with a minimum bandwidth of 512Kbps 720p 60fps with a minimum bandwidth of 768Kbps 720p 30fps with a minimum bandwidth of 384Kbps H.265 4K 30fps, minimum bandwidth 2Mbps 1080p 60fps, Minimum bandwidth 768Kbps 1080p 30fps with a minimum bandwidth of 384Kbps 720p 60fps with a minimum bandwidth of 512Kbps 720p 30fps, minimum bandwidth 256Kbps
Dual flow capacity	1080P30 + 1080P30 1080P60 + 1080P60 4K30 + 4K30	1080P30 + 1080P30 1080P60 + 1080P60 4K30 + 4K30	1080P30 + 1080P30 1080P60 + 1080P60 4K30 + 4K30
Video input interface	1×HT-RX 2×HDMI	1×HT-RX 3×HDMI	1×HT-RX 3×HDMI
Video output port	2×HDMI	3×HDMI	3×HDMI

Audio input port	1×HD-AI (Level 2) 1×cannon head 2×HDMI (audio input) 2×RCA	1×HD-AI (Level 2) 1×cannon head 3×HDMI (audio input) 2×RCA	1×HD-AI (Level 2) 1×cannon head 3×HDMI (Audio input) 2×RCA
Audio output interface	4×RCA 1×HDMI (audio output)	4×RCA 1×HDMI (audio output)	4×RCA 1×HDMI (audio output)
Other ports	1 xUSB 2.0A port 1 xUSB 3.0A port 2×10/100/1000M LAN 1×PoE network port (Touch) 2×RJ45 serial port 1×WIFI (built-in)	1 xUSB 2.0A port 1 xUSB 3.0A port 2×10/100/1000M LAN 1×PoE network port (Touch) 2×RJ45 serial port 1×WIFI (built-in)	1 xUSB 2.0A port 1 xUSB 3.0A port 2×10/100/1000M LAN 1×PoE network port (Touch) 2×RJ45 serial port
Microphone cascade	2	2	2
Bandwidth	IP: 64kbps to 8Mbps	IP: 64kbps to 8Mbps	IP: 64kbps to 8Mbps
Size	Terminal size: 442mm×58mm×285mm Package Size: 580mm×205mm×380mm Net weight: 4.2kg Gross weight: 8.1kg	Terminal size: 442mm×58mm×285mm Package Size: 580mm×205mm×380mm Net weight: 4.2kg Gross weight: 8.1kg	Terminal size: 442mm×58mm×285mm Package Size: 580mm×205mm×380mm Net weight: 4.2kg Gross weight: 8.1kg
Electrical characteristics	Operating Voltage: 100V to 240VAC Working frequency: 50Hz to 60Hz Maximum Power Consumption: 100W Built-in AC/DC power modul	Working voltage: 100V to 240VAC Operating frequency: 50Hz to 60Hz Maximum Power Consumption: 100W Built-in AC/DC power module	Working voltage: 100V to 240VAC Working frequency: 50Hz to 60Hz Maximum Power Consumption: 100W Built-in AC/DC power module

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