HUAWEI CloudLink Board

All-in-One Collaborative Telepresence

Product Highlights

- 65-inch touch screen
- Built-in 5K ultra HD camera
- H.265 transcoding capability
- Intelligent voice assistant
- Automatic speaker tracking
- Convenient wireless sharing

Huawei CloudLink Board is a powerful intelligent collaborative conferencing system. Integrated with an Artificial Intelligence (AI) engine, it enables users to focus more on meeting content and enhances user conference experience through intelligent voice assistant, automatic speaker tracking, and other new capabilities.

Comprehensive coverage of meeting scenarios with multiple function

- Built-in 65-inch touch screen, 5K ultra HD camera, arrayed MIC, codec, speaker and stylus, which can cover all the scenarios.
- The 65-inch touch screen can satisfy content display in small and medium-sized conference rooms or open discussion space, local seminars, and remote interactive collaboration.
- Built-in 12+1 arrayed MIC for clear voice pickup within 6 meters.
- It can be equipped with AirPresence, AirPresence Key, etc. to quickly share content wirelessly.

Powerful AI engine, fully intelligent conference experience

- Through voice interaction with the intelligent voice conference assistant, you can complete basic conference control functions, such as convene a conference, join a conference, call a conference site, view a conference site, and share materials.
- The intelligent automatic speaker tracking function enables the system to detect the location of the speaker in real time and automatically display a close-up image of the speaker.

Core audio and video capabilities to ensure premium conference collaboration

- The new H.265 core transcoding capability provides 1080p30 video and 4K @ 8 fps data. The data content is clearer and more detailed.
- With a new beam-picking technology, the built-in 12+1 arrayed MIC captures sound at the same time, and the speaker sound is perfectly presented through intelligent algorithms.
- A new generation of Huawei Video Motion Enhancement (VME) ensures a clear picture experience at low bandwidth.

ESimple UI, more humane interaction

- Using the simple human-computer interaction interface, you can hide menus that are not applicable, ensuring ease of use, and the core functions are accessible in a single step.
- Physical buttons, or hot keys, are set to match important functions, enabling quick, convenient controls.
- When a user starts writing, the system can automatically sense and then switch to the whiteboard writing interface.
- When there are multiple content sources, you can operate simultaneously in the split screen mode. Annotation is supported.

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HUAWEI CloudLink Board Specifications

Components

65-inch touch screen, HD codec (built-in 5K camera, microphone array, speaker), 3x digital writing pen, wall brackets and supplementary cables, touch screen (optional), AirPresence key (optional), and floor stand (Optional)

Standards & Protocols

Multimedia Frame Protocols: ITU-T H.323,IETF SIP

Video Encoding and Decoding Protocols: H.265, H.264 HP, and H.264 BP

Audio Encoding and Decoding Protocols: G.711A,G.711U,G.722,G.722.1C*,and Opus,AAC-LD single/dual acoustic channel

Dual-stream Protocol: ITU-T H.239, BFCP, and Data

Other Communication Protocols: H.350,LDAP,and LDAPS

Network Transmission Protocols: DHCP,DNS,SNMP,Telnet,SSH,HTTP,HTTPS,SNTP,TR-069,RTP, and RTCP

Wi-Fi Standards: IEEE802.11a/b/g/n/ac, WEP, WPA, WPA2, and WPS

Standards & Protocols

Moving Picture Resolution:
- H.264
  1080p30,minimum bandwidth required 512Kbps
  720p60,minimum bandwidth required 768Kbps
  720p30,minimum bandwidth required 384Kbps
  4SIF/4CIF ,minimum bandwidth required 128Kbps
  SIF/CIF, minimum bandwidth required 64Kbps
- H.265
  1080p30,minimum bandwidth required 384Kbps
  720p60,minimum bandwidth required 512Kbps
  720p30,minimum bandwidth required 256Kbps

Presentation Resolution:
- Input:
  HDMI: 4K/2K @ 25/30/50/60 fps; 3,200 x 1,800 @ 60 fps; 2,880 x 1,800 @ 60 fps; 2,880 x 1,620 @ 60 fps; 2,560 x 1,600 @ 60 fps; 2,048 x 1,536 @ 60 fps;
  1,920 x 1,200 @ 60 fps; 1,680 x 1,050 @ 60 fps; 1,600 x 1,200 @ 60 fps; 1,600 x 900 @ 60 fps, 1,440 x 900 @ 60 fps, 1,400 x 1.050 @ 60 fps;
  1,366 x 768 @ 60 fps; 1,360 x 768 @ 60 fps; 1,280 x 1,024 @ 60/75/85 fps; 1,280 x 960 @ 60 fps, 1,280 x 768 @ 60/75/85 fps;
  1,280 x 800 @ 60 fps; 1,024 x 768 @ 60/70/75/85 fps; 800 x 600 @ 56/60/72/75/85 fps; 720 x 400 @ 85 fps; and 640 x 480 @ 60/72/75/85 fps
  VGA: 640 x 480 @ 60/72/75/85 fps; 720 x 400 @ 85 fps; 800 x 600 @ 56/60/72/75/85 fps; 1,024 x 768 @ 60/70/75/85 fps; 1,152 x 864 @ 75 fps;
  1,280 x 768 @ 60/75/85 fps, 1,280 x 800 @ 60 fps, 1,280 x 960 @ 60 fps; 1,280 x 1,024 @ 60/75/85 fps; 1,360 x 768 @ 60 fps; 1,366 x 768 @ 60 fps,
  1,440 x 900 @ 60 fps; 1,400 x 1,050 @ 60 fps; 1,440 x 576i @ 60 fps; 1,440 x 480i @ 60 fps; 720 x 480p @ 60 fps; 720 x 576p @ 50 fps;
  720p50/60; 1080p24/25/30/50/60; 1,600 x 900 @ 60 fps; 1,600 x 1,200 @ 60 fps; 1,680 x 1050 @ 60 fps; and 1,920 x 1,200 @ 60 fps;
  Codec resolution: 800 x 600; 1,024 x 768; 1,280 x 1,024; 1,280 x 720; 1,920 x 1,080; and 3,860 x 2,160
- Outputs: 800 x 600; 1,024 x 768; 1,280 x 1,024; 1,280 x 720; 1,920 x 1,080; and 3,860 x 2,160

Presentation Dual Stream

- 1080p30 + 1080p30 (4K @ 8 fps)
- Data conference: 4K @ 3 fps

Built-in HD Camera

- Built-in 5K camera
- 20.92-megapixel 1-inch CMOS
- 3x digital zoom

Audio Features

Audio Features:
Acoustic Echo Cancellation (AEC), Automatic Noise Suppression (ANS), Automatic Gain Control (AGC), VoiceClear, AudioEnhancer, and lip synchronization

Stability and Security

Network Adaptability: Super Error Concealment (SEC), Automatic Repeat-reQuest (ARQ), and Forward Error Correction (FEC)

Security Management

- TLS-/SRTP-based encryption
- Conference access password, conference control password, and administrator password
- SSH/HTTPS and dual-stream encryption

Bandwidth

IP: 64kbps to 4Mbps

*: G.722.1C, licensed from Polycom®

The figures are for reference only. Huawei reserves the right to improve or change the product appearance or technical specifications without prior notice.

HUAWEI CloudLink Board Specifications

Ports			
Audio Input Port:			
• 12+1xbuilt-in microphone array	• 1 x 3.5mm	• 1 x HD-AI	• 1xHDMI (audio)
Audio Output Port:			
• 2 x Speaker (Built-in)	• 1 x 3.5mm	• 1 x HDMI (Audio supported)	
Video Input Port:			
• 1 x built-in camera (5K lens, 1080p30, and 3x lossless zoom)			
• 1 x HD-VI (4K30)	• 1 x HDMI (4K30)	• 1 x VGA (1080p60)	
Video Output Port:			
• 1 x 65 inch built-in LCD display (4K @ 60fps)		• 1 x HDMI (4K @ 60fps)	
USB Port:			
• 2 x USB 3.0(Host)	• 1 x USB 2.0(Device)		
Network Ports:			
• IP: 10/100/1,000M Base-T	• Wireless: Built-in Wi-Fi		
Other Ports:			
• 1 x RJ45 serial port	• 1 x Touch port	• 1 x Bluetooth (built-in)	• 1 x Wi-Fi (built-in)

Conference Features

Languages: Simplified Chinese, English, French, German, Spanish, Japanese, Russian, Traditional Chinese, and Portuguese

Features:

- 65 inch touchable screen
- Intelligent voice assistant
- Automatic speaker tracking
- 4K data content
- Multi-stream viewing selection
- Unified address book
- Built-in bluetooth
- 2.4G/5G dual frequency Wi-Fi
- IPv6/IPv4
- AirPresence/AirPresence Key
- System automatically starts the whiteboard when user lifts the pen
- Write and show the font weight
- Split screen display
- Content and application annotation
- Whiteboard content forwarded by mail
- Dynamic theme wallpaper

Maintenance and Management

Maintenance Methods:

- 65 inch touch screen: lightweight interaction interface, core functions are accessible in one step
- Using the network management system: SNMP and TR-069 protocols supported
- Using the web interface: Embedded web server and graphic maintenance and diagnostics
- Using command lines: Telnet and SSH supported

Maintenance Functions:

- Automatic sleep and wake-up using the remote control
- Factory settings restoration
- Embedded audio and video testing
- Logging and log query and export
- Embedded local loopback: Local self-loop

Dimensions and Weight

Dimensions (H x W x D):

- Endpoint dimensions: 1,492 mm x 974mm x 72 mm
- Net weight: 59 kg
- Package dimensions: 1,660mm x 1,118 mm x 252 mm
- Gross weight: 70 kg

Electricity Supply Requirements:

- Working voltage: 100V to 240V AC
- Maximum power consumption: 300W
- Working frequency: 50Hz to 60Hz

Environmental Requirements:

- Temperature: 0°C to 40°C (working state) -20°C to +60°C (non-working state)
- Relative humidity: 10% to 80% (working state) 0% to 95% (non-condensing state)
- Ambient noise: < 46dBA SPL
- Minimum illumination: 7lux
- Recommended illumination: > 200lux

Certification: CCC, CE (RoHS/REACH/WEEE), UL, FCC, VCCI,RCM, and Radio Type Approval Certification