

GVC3200

Full HD Video Conferencing System



GVC3200

The GVC3200 is a ground-breaking solution that offers small-to-medium businesses a revolutionary video conferencing system with unprecedented flexibility and the power of support for multiple popular video conferencing protocols and platforms right out of the box. The SIP-based GVC3200 supports Grandstream's robust IPVideoTalk Pro platform for plug and play video conferencing while also being interoperable with any 3rd party SIP video conferencing platform - thus offering a great option to expand or implement a 3rd party platform. Additionally, since it is based on Android 4.4, the GVC3200 offers full access to all video conferencing apps in the Google Play Store — such as Skype®, Skype for Business®, Google Hangouts™ and more. The GVC3200 sports an innovative, patent-pending embedded MCU that supports up to 9-way conferencing with local mixing between SIP and other protocols. The GVC3200 eliminates the traditional barriers to video conferencing and sets a new bar for business-class video conferencing solutions by offering industry-leading flexibility, interoperability, application richness and ease of use.

Feature Highlights

- Runs Android 4.4 and offers full access to all video conferencing apps in the Google Play Store (such as Skype, Skype for Business, Google Hangouts, etc)
- Proprietary, patent pending embedded MCU supports up to 4-way 1080p Full HD (or 5-way 720p HD, or 9-way VGA) video conferencing, collaborative sharing of computer screen at 1080p resolution, and cross-protocol local conference mixing between SIP and any other Android video conferencing apps (e.g., Skype, Skype for Business, Google Hangouts, etc)
- Integrated dual-band WiFi, integrated Bluetooth 4.0, Gigabit network port, SD interface (for local recording)
- Remote-controllable wide-angle PTZ camera with 12x optical zoom, Bluetooth-based multi-touch remote control
- State-of-the-art H.264 High Profile video compression and FEC (Forward Error Correction) technology to ensure high resolution stunning video quality using low-to-modest bandwidth (e.g., 512kbps)
- FPGA based hardware implementation of advanced ISP (Image Signal Processing - including auto-focus, auto exposure, auto white balance, noise reduction, wide dynamic range, etc) technology
- Interoperable with 3rd party SIP-based video conferencing solutions (such as BlueJeans, Cisco, Polycom, and Huawei) using BFCP and TIP (pending)
- 3x HDMI output, 1x VGA/HDMI input

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Technical Specifications

Protocols/Standards	SIP RFC3261, BFCP, TIP (pending), RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, LLDP-MED, LDAP (pending), TR-069, 802.1x, TLS, SRTP, TCP/IP/UDP, IPv6 (pending), FEC, FECC, (pending: H.323, H.245, H.225, H.235, H.241, H.460)
Camera	1/3" 2 Megapixel CMOS 1920Hx1080V@30fps
Lens	12x optical zoom, +/-23° tilt, +/- 90° pan, 70°(W)*- 6.3° (T) field of view
Network Interface	1× RJ45 10/ 100/ 1000 Mbps port
Wi-Fi	Yes, integrated dual-band 802.11 a/b/g/n (2.4GHz & 5GHz)
Bluetooth	Yes, integrated. Bluetooth 4.0 + EDR
Video Outputs	3x HDMI up to 1080p with CEC
Video Input	1x VGA/1x HDMI with resolution up to 1080p
Microphone/Speaker	External MIC/Speaker, built-in MIC, cascadable external MIC/speaker (pending)
Remote Control	Bluetooth remote control with multi-touch touchpad
Auxiliary Ports	1x USB 2.0, SD, external speaker port, reset pin
Graphic Display	OLED with 128x32 resolution
Voice Codecs	G.711μ/a, G.722 (wide-band), G.726-32, iLBC (pending), Opus, G.722.1, G.722.1c (pending), in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO)
Video Codecs	H.264 BP/MP/HP, video resolution up to 1080p, frame rate up to 30fps, bitrate up to 4Mbps
People Video Resolution	1080p from 512 Kbps, 720p from 384 Kbps, 4SIF/4CIF from 128 Kbps, SIF/CIF/QSIF/QCIF/SQSIF/SQCIF from 64 Kbps
Content Video Resolution	Input: VGA, SVGA, XGA, WXGA, SXGA, 1440×900, 720p, 1600×1200, 1080p (HDMI), up to 60fps; Encoding: 1280×720, 1920×1080
Output Resolution	720p, 1080p
Embedded MCU	Up to 4-way 1080p conference, 5-way 720p conference, 9-way VGA conference
Dual-Stream	BFCP, people video (up to 1080p@30fps) + content video (up to 1080p@15fps, 720p@30fps)
Audio Features	AEC, ANS, AGC, PLC, CNG/VAD
Video Features	FEC, dynamic display layout, picture-in-picture, picture-outside-picture, digital caption (pending)
Platform Bridging	Bridge SIP calls with any Android VoIP apps such as Skype, Skype for Business, Google Hangouts and more
Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 9-way audio/video conference, downloadable XML phone book, LDAP (pending), call waiting, call history, flexible dial plan, personalized music ringtones, server redundancy & fail-over
Sample Applications	Skype, Google Hangouts, Skype for Business, Web browser, Facebook, Twitter, YouTube, Google calendar, mobile phone data import/export via Bluetooth, etc. API/SDK available for advanced custom application development
Application Deployment	Allows Android 4.4.2 compliant applications to be deployed in the device with provisioning control
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, 128/256-bit SRTP, HTTPS, 802.1x media access control
Multi-Language	English, German, Italian, French, Spanish, Portuguese, Russian, Turkish, Polish, Chinese, Korean, Japanese, and more
Upgrade/Provisioning	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input 100-240VAC 50-60Hz; Output 12VDC/5A (60W)
Package Content	GVC3200 video conference system, external USB speaker/MIC, remote control, lens cover, universal power supply, network cable (1.5 meters), USB extension cable (5 meters), mounting kit, 4 HDMI cables (one 1.5 meter cable, two 3 meter cables and one 5 meter cable), 2 AAA batteries, quick installation guide, brochure, GPL license
Temperature and Humidity	Operation: 0°C to 40°C, Storage: -10°C to 60°C, Humidity: 10% to 90% Non-condensing
Compliance	FCC: Part 15 (CFR 47) Class B; UL 60950 (power adapter), Part 15C, Part 15E.407, Part 2.1091 CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, EN62479, RoHS, EN301893, EN62311 RCM: AS/NZS CISPR22/24; AS/NZS 60950; AS/NZS 4268

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