# GRANDSTREAM
## CONNECTING THE WORLD

# GVC3202

## SIP/Android Video Conferencing Solution

The GVC3202 is a ground-breaking solution that offers 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 GVC3202 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 GVC3202 offers full access to all video conferencing apps in the Google Play Store. The GVC3202 sports an innovative, patent-pending embedded MCU that supports up to 3-way conferencing with local mixing between SIP and other protocols.

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| **SIP** Supports any SIP platform and any Android app - and can bridge calls from Android apps into SIP conference | Built-in Bluetooth for use with Bluetooth speakers/ microphones, keyboards, data exchange, etc. | **x2 HDMI** Support for 2 screens thanks to 2 HDMI outputs | **Gigabit** Experience the fastest possible connections speeds to maximize video quality |
| **1080p HD** Experience video resolutions up to 1080p | **ZOOM X9** A powerful 9x optical zoom offers robust video clarity | Share a presentation with conference attendees or review a document. | **3 WAYS** Embedded MCU to allow up to 3 video attendees |
| Local & far-end controllable PTZ camera with wide-angle lens | The GVC3202 can remind attendees 10 mn before start-time and automatically call all particpants | **• REC** Easily record all video conferences to document meetings | |

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| **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** | 9x optical zoom, +/-23° tilt, +/- 90° pan, 70°(W)*- 6.3° (T) field of view |
| **Network Interface** | 1× RJ45 10/ 100/ 1000 Mbps port |
| **Bluetooth** | Yes, integrated. Bluetooth 4.0 + EDR |
| **Video Outputs** | 2x 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 30 fps, bitrate up to 4Mbps |
| **People Video Resolution** | 1080p from 512 Kbps, 720p from 384 Kbps, 4SIF/4CIF from 128 Kbps, SIF/CIF/QSIF/QCIF/SQ-SIF/SQCIF from 64 Kbps |
| **Content Video Resolution** | Input: VGA, SVGA, XGA, WXGA, 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 2-way 1080p conference, 3-way 720p conference, 3-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, 3-way audio/video conference, downloadable XML phone book, LDAP (pending), call waiting, call history, flexible dial plan, personalized music ring tones, 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** | GVC3202 video conference system, external USB speaker/MIC, remote control, universal power supply, network cable (1.5 meters), USB extension cable (5 meters), mounting kit, 3 HDMI cables (one 1.5 meter cable, one 3 meter cables and one 5 meter cable), lens cover, 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<br>CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, EN62479, RoHS, EN301893, EN62311<br>RCM: AS/NZS CISPR22/24; AS/NZS 60950; AS/NZS 4268 |