

Embrace the new Generation.. **G5**



Shipping 4th Quarter 2009

Multi-Point Audio Distribution and STL codec

Tieline G5 rack-mount IP audio codecs introduce a new generation of STL grade broadcast codecs for studio-to-transmitter links and audio distribution applications.

Designed for the latest digital broadcast networks, G5 is the leading audio codec solution for FM and HD radio links.

Applications

G5 rack-mount codecs are perfect for:

- Studio-to-Transmitter Links (STL)
- Multiple mono and stereo audio distribution paths including unicast, multiple unicasts and multicast applications.
- 5.1 Surround sound audio contribution and distribution. (Card Option)
- Reception of remote broadcast codec audio streams.
- Stereo with low latency IFB/Comms

Rock Solid Reliability

G5 rack-mount codecs feature rock-solid DSP-based technology, specifically designed for 365/24/7 operation over mission critical audio paths throughout broadcast networks with multiple failover options.

Flexible Connections

G5 delivers studio quality audio over available wireless 3G/3.5G/4G IP networks, wired LANs, WANs, the Internet, satellite IP, Wi-MAX and Wi-Fi. G5 also supports connections over POTS and ISDN networks. Plug in the optional 6 in/6 out card for 5.1 surround sound or other multichannel connections.

Multiple Failover Options

G5 offers automatic power, audio silence and network failover solutions to ensure you're always on the air.

Automatic network failure detection provides switching to an alternative service and returns to primary audio on restoration of service.

An optional dual redundant power supply can be installed for STL and other mission critical links.

Automatic audio silence detection can failover to an alternative audio input using the optional input expansion card. An optionally installed flash drive can also provide record or playback capability for uncompressed or MP3 recordings.

Proven IP Technology

Tieline's QoS Performance Engine Technology is an integral part of ensuring stable and reliable connections across the full spectrum of IP connections. It automatically manages point-to-point and multi-point IP connections, using dynamic jitter buffering, forward error correction and packet repair to deliver continuous high quality audio over both managed networks and lossy networks like the public Internet.

Algorithms

G5 rack-mount codecs can send 16-24bit 22kHz low latency linear PCM audio, delivering unsurpassed sonic clarity. G5 also features G.711, G.722, MPEG Layer 2 and Tieline Music as standard.

The Tieline MusicPLUS algorithm provides 22 kHz mono, dual mono or stereo with 20ms encode delay at under 100 Kbps, offering huge savings on your IP data bills, without compromising on audio quality. AAC-LC, AAC-HE and AAC-HE v.2 will also be available as optional extras.

Tieline G5's asymmetric codec capabilities enables high quality audio in one direction with low latency comms on the return channel.

Support for multiple languages

G5 is a truly global codec. The new G5 graphic LCD supports multiple languages and non-English characters. Tieline is currently planning for English, Spanish, German, French, Chinese, and Arabic.

Proven Compatibility

G5 rack-mount codecs can connect over IP with any SIP-enabled IP codec brand that supports the EBU N/ACIP tech 3326 standard, as well as VoIP telephone devices supporting G.711 and G.722.

G5 codecs are compatible over ISDN with most codec brands using the popular G.722, and MPEG algorithms. They are also compatible over POTS with Comrex* Matrix*, Access*, Vector* and BlueBox* codecs.

All G5 codecs are backward compatible with Tieline G3 codecs.

Codec Management with Remote Control

G5 comes with a browser-enabled GUI interface called G5 Toolbox that enables complete control and configuration of the codec.

G5 Toolbox is served by the codec directly to your web browser, which means you can remote control an STL or distribution codec locally, or from wherever you can find an Internet

TieServer is an IT manager in a box. It enables your codecs to automatically see each other across standard firewalls and manages all your IP addressing for you. TieServer will also display any brand of codec that supports the EBU tech 3326 standard for IP interoperability

Inputs and Outputs

- 2 x analog Line balanced switchable inputs (XLR).
- 2 x analog balanced outputs (XLR).
- Balanced auxiliary input (Mic/Line) output H/P and Line (6.35 mm / 1/4 Inch Jack).
- AES/EBU digital in/out with simultaneous analog and digital audio out capability with word clock sync.



Front Panel of the G5 1RU Rack Codec

connection. Toolbox also provides a software upgrade interface plus fault management diagnostics. Create custom connection profiles which can be saved for specific broadcasts.

TieServer - Traversal Server

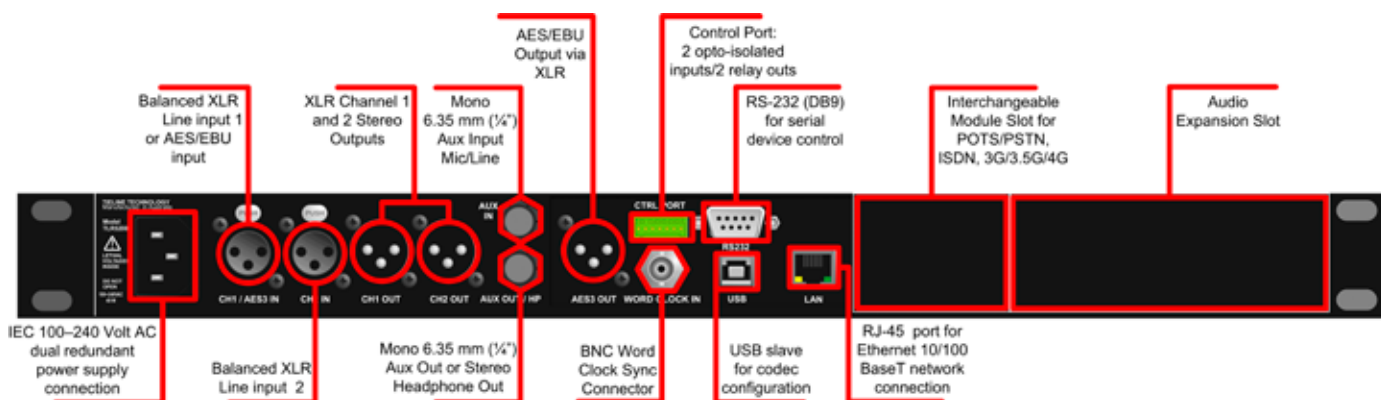
Tieline's IP traversal server (TieServer) and management software makes connecting over IP networks a simple, no-fuss task for eventhemostnon-technicalbroadcast personnel. Connect your G5 to the Internet and all the other codecs in your network will automatically show up in your address book just like Skype® or ICQ®. You can see which codecs in your network are online and available as well as those that are busy with connections.

Connections Summary

- Multicast Tx or Rx capability.
- Up to ten unicast connections, each with up to 10 separate connection nodes (one with full-duplex communications capability)
- Full duplex communications with asymmetric configuration.
- Stereo with low latency bi-directional IFB and Comms.
- One touch dialing & programmable auto-dial, renegotiation and hang-up of connections.
- Automatic management of your address book and IP traversal connections via exclusive TieServer.
- Surround sound 5.1 in/out capability.

- Control inputs and 2 opto-isolated outputs, suitable for alarms and machine control, provided via a pluggable terminal block.
- Adjustable in-band auxiliary data channel available for sending machine control data via RS-232 serial connections.
- USB slave for connection to a PC.

G5



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