

Tieline G5 Codec Comparison

| |  |  |  |  |  |  |  |  |  |
|---|---|---|--|---|---|---|---|---|---|
| Backup | | | | | | | | | |
| Dual Redundant Power Supplies | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Internal Battery | | | ✓ | | | | | | |
| Transport Backup/Failover | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SmartStream PLUS Redundant IP Streaming | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fuse-IP Network Bonding | ✓*** | ✓*** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Audio Clip Player Backup | ✓ SD Card | ✓ SD Card | | | | | ✓ USB | ✓ USB | ✓ USB |
| 4 Output Backup Options | | | | | | | ✓ | ✓ | ✓ |
| Multiple Protocols | | | | | | | | | |
| Dual Stack, IPv4/IPv6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SIP compatible | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| N/ACIP 3326 compliant | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| I3P EBU3347 compliant | | | ✓ | ✓ | ✓ | ✓ | | | |
| Transports | | | | | | | | | |
| 10/100 Ethernet Port | ✓ | ✓ | | | | | | | |
| Dual 10/100/1000 Ethernet Ports | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wi-Fi capable | | | Built-in | USB Wi-Fi Dongle | USB Wi-Fi Dongle | USB Wi-Fi Dongle | USB Wi-Fi Dongle | USB Wi-Fi Dongle | USB Wi-Fi Dongle |
| USB Cellular Ports | | | 2 | | | | | | |
| WheatNet-IP LAN Port | | | | | | ✓ | | | ✓ |
| Cellular module capable | | | ✓ | | | | | | |
| ISDN module capable | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| POTS module capable | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Control Ports In/Out (GPIO) | | | | | | | | | |
| 2 relay inputs/2 opto-isolated outputs | ✓ | | | | | | | | |
| 4 relay inputs/4 opto-isolated outputs | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pro Audio Options | | | | | | | | | |
| File record and playback capability | | | ✓ SD Card | | | | | | |
| Matrix Editor to Customize Input & Output Routing & Mixes | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Automated Program Scheduler | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Input Compressors and Equalization | | | ✓ | | | | | | |
| Configure Multiple SIP Accounts | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Supports hardware GPIOs plus Logic IOs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Advanced IP security: SSL certificates, CSRF, Firewall Configuration, SIP White & Blacklists & User Agent Blacklists | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| XLR In/Out (2 inputs unless otherwise stated) | ✓ | ✓ | 3 Inputs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AES3 In/Out | ✓ | ✓ | AES In Only | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AES42 Input (Mode 1 & 2) | | | Mic 1 | | | | | | |
| Stereo Auxiliary Analog or Digital Input/Digital Output | | | ✓ | | | | | | |
| Additional 4 Channels In/Out via DB-25 | | | | | ✓ | | | ✓ | |
| WheatNet-IP: 6 (mono) or 3 (stereo) channels | | | | | | ✓ | | | ✓ |
| 3 x Headphone outputs | | | ✓ | | | | | | |
| 6.35mm / ¼" Front panel headphone output | | ✓ | | | | | | | |
| 6.35mm / ¼" Rear panel stereo headphone output | ✓ | ✓ | | | | | | | |
| 6.35mm / ¼" Front panel stereo headphone output or balanced line out (software switchable) | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.35mm / ¼" Rear panel stereo headphone output or balanced line out (software switchable) | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.35mm / ¼" Rear Panel Balanced Aux mic/line input | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Encoding Options | | | | | | | | | |
| 32kHz, 44.1kHz & 48kHz sampling linear audio | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Low latency 96kHz sampling linear audio | | | | | | | ✓ | ✓ | ✓ |
| Tieline Music, MusicPLUS, G.711, G.722, MPEG Layer II, HE-AAC, HE-AAC v2, AAC-LC, AAC-LD, AAC-ELD, MP3 | ✓* | ✓* | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| aptX Enhanced | ** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bidirectional IFB communications channel | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Opus | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Peer-to-Peer and Multipoint Connectivity | | | | | | | | | |
| Bidirectional stereo peer-to-peer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 x mono peer-to-peer | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 6 channel bidirectional peer-to-peer | | | | | | | ✓ | ✓ | ✓ |
| 1 x Multicast | ✓ | ✓ | | | | | ✓ | ✓ | ✓ |
| Simultaneous Multicasts | | | | | | | | 2, 3 or 6 | 2, 3 or 6 |
| 1 x Multi-unicast; 1st connection bidirectional | up to 6 end-points | up to 6 end-points | | | | | up to 10 end-points | up to 60 end-points | up to 60 end-points |
| Simultaneous Multi-unicasts to a maximum of 60 endpoints in total; 1st connection bidirectional for each multi-unicast audio stream | | | | | | | | 2, 3 or 6 | 2, 3 or 6 |
| 1 x stereo and 4 x mono peer-to-peer bidirectional connections | | | | | ✓ | ✓ | | ✓ | ✓ |
| 2 x stereo and 2 x mono peer-to-peer bidirectional connections | | | | | ✓ | ✓ | | ✓ | ✓ |
| 3 x stereo peer-to-peer bidirectional connections | | | | | | | | ✓ | ✓ |
| 6 x mono peer-to-peer bidirectional connections | | | | | ✓ | ✓ | | ✓ | ✓ |
| 1 x stereo peer-to-peer bidirectional connection plus a bidirectional mono IFB comms channel | | | ✓ | ✓ | ✓ | ✓ | | | |
| Alarms | | | | | | | | | |
| Silence Detection | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PSU Failure | | ✓ LED | PSU icon in Status Bar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lost Connection | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Temperature Alarm | N/A | N/A | N/A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AES Input Lost | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AES Reference Lost | | | N/A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SNMP | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Configuration Software Available | | | | | | | | | |
| Cloud Codec Controller for Network Management of Codecs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ToolBox Web-GUI for codec configuration: HTML5 & HTML5 Quick Connect available. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wheatstone Navigator software for configuring WheatNet-IP routing | | | | | | ✓ | | | ✓ |
| Wheatstone Razor software for configuring WheatNet-IP cards | | | | | | ✓ | | | ✓ |
| Hyperlinks to Brochures in All Languages | Click here | Click here | Click here | Click here | Click here | Click here | Click here | Click here | Click here |
| Hyperlink to Manuals in English | Click here | Click here | Click here | Click here | Click here | Click here | Click here | Click here | Click here |
| Hyperlink to Product Webpage | Click here | Click here | Click here | Click here | Click here | Click here | Click here | Click here | Click here |

* MP3 Decode only
 ** Optional feature
 *** One interface only available on Bridge-IT codecs