











Tieline G5/G6 Codec Comparison

										
Backup										
Dual Internal Power Supplies		✓		✓	✓	✓	✓	✓	✓	✓
Internal Battery			✓							
Transport Backup/Failover			✓	✓	✓	✓	✓	✓	✓	IP only
SmartStream PLUS Redundant IP Streaming	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fuse-IP Network Bonding	✓***	✓***	✓	✓	✓	✓	✓	✓	✓	✓
Audio File Backup	SD Card	SD Card					USB	USB	USB	SD/USB^^^
4 Output Backup Options							✓	✓	✓	✓
Multiple Protocols										
Dual Stack, IPv4/IPv6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SIP EBU N/ACIP 3326 compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SIP EBU N/ACIP 3368 compliant			✓	✓	✓	✓	✓	✓	✓	✓
I3P EBU3347 compliant			✓	✓	✓	✓				✓
Transports										
Dual 10/100/1000 Ethernet Ports	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual Gigabit AoIP Streaming Ports										AES67/WheatNet-IP^
10/100 Ethernet Port	✓	✓								
Wi-Fi capable			Built-in	USB modem	USB modem	USB modem	USB modem	USB modem	USB modem	USB modem
USB Cellular Ports			2							
WheatNet-IP LAN Port						✓			✓	Via AoIP port 1
Module Slot			ISDN	ISDN	ISDN	ISDN	ISDN	ISDN	ISDN	Tech upgrades
Control Ports In/Out (GPIO)										
Relay inputs/opto-isolated outputs	2	4	4	4	4	4	4	4	4	8 - 16^^
Audio I/O Options										
AES67 in/out										16 in/out via RJ-45
Analog In/Out	2 XLR in/out	2 XLR in/out	3 XLR in/2 XLR out	2 XLR in/out; TRS Aux in/out	2 XLR in/out & 4 in/out via DB-25	2 XLR in/out; TRS Aux in/out	2 XLR in/out; TRS Aux in/out	2 XLR in/out & 4 in/out via DB-25	2 XLR in/out; TRS Aux in/out	8 in/out via RJ-45
AES3 In/Out	2 in / 2 out	2 in / 2 out	2 inputs	2 in / 2 out	2 in / 2 out			6 in / 6 out	6 in / 6 out	16 in/out via RJ-45
AES42 Input (Mode 1 & 2)			Mic 1							
Stereo Analog Line Input or Stereo Digital Input/Output			Mini Jack; Micro USB; S/PDIF							
WheatNet-IP Sources/Destinations						6 mono or 3 stereo			6 mono or 3 stereo	16 mono or 8 stereo*
3 x Headphone outputs			✓							
6.35mm / ¼" Front panel stereo 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				✓	✓	✓	✓	✓	✓	
Advanced Audio Features										
File record and playback capability			✓ SD Card							SD/USB^^^
Routing & Mixes			✓	✓	✓	✓	✓	✓	✓	✓
Automated Program Scheduler			✓	✓	✓	✓	✓	✓	✓	✓
Input Compressors and Equalization			✓	✓	✓	✓	✓	✓	✓	✓
Configure Multiple SIP Accounts	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Supports hardware GPIOs plus Logic I/Os	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced IP security: SSL certificates, CSRF, Firewall Config, SIP Allow & Deny lists & User Agent Deny Lists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Encoding Options										
32kHz, 44.1kHz & 48kHz sampling linear PCM audio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
96kHz sampling linear PCM audio								✓	✓	✓
Asymmetric encoding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Layer II, HE-AAC, HE-AAC v2, AAC-LC, AAC-LD, AAC ELD, MP3	✓**	✓**	✓	✓	✓	✓	✓	✓	✓	✓
aptX Enhanced	*	✓	✓	✓	✓	✓	✓	✓	✓	✓
Opus	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bidirectional IFB communications channel			✓	✓	✓	✓				✓
Peer-to-Peer and Multipoint Connectivity										
1 x stereo peer-to-peer (bidirectional)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 x mono peer-to-peer (bidirectional)			✓	✓	✓	✓	✓	✓	✓	✓
3 x Mono peer-to-peer (bidirectional)			✓	✓	✓	✓	✓	✓	✓	✓
6 channel bidirectional peer-to-peer (bidirectional)								✓	✓	
1 x stereo and 4 x mono peer-to-peer (bidirectional)					✓	✓		✓	✓	
2 x stereo and 2 x mono peer-to-peer (bidirectional)					✓	✓		✓	✓	
3 x stereo peer-to-peer (bidirectional)								✓	✓	
6 x mono peer-to-peer (bidirectional)					✓	✓		✓	✓	
1 x stereo peer-to-peer plus mono IFB comms (bidirectional)			✓	✓	✓	✓				
Multichannel IP (bidirectional): Not all encoding types										16 mono or 8 stereo
1 x Multicast	✓	✓					✓	✓	✓	✓
Simultaneous Multicasts								2, 3 or 6	2, 3 or 6	up to 8
1 x Multi-unicast; 1st connection bidirectional	up to 6 cxns	up to 6 cxns					up to 10 cxns	up to 60 cxns	up to 60 cxns	up to 60 cxns
Simultaneous Multi-unicasts to maximum of 60 endpoints in total; 1st connection bidirectional for each audio stream								2, 3 or 6	2, 3 or 6	2, 3 or 6
Alarms										
Silence Detection			✓	✓	✓	✓	✓	✓	✓	✓
PSU Failure		✓ LED	Status Bar Icon	✓	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HTML ToolBox Web-GUI for codec configuration & HTML5 Quick Connect available.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TieLink Traversal Server for simple connections			✓	✓	✓	✓	✓	✓	✓	✓
Wheatstone Navigator configures WheatNet-IP routing						✓			✓	✓
Wheatstone Razor software configures WheatNet-IP cards						✓			✓	✓
Hyperlink to Product Webpage	Click here	Click here	Click here	Click here	Click here	Click here	Click here	Click here	Click here	Click here

* Optional Feature
 ** MP3 Decode only
 *** One interface only available on Bridge-IT codecs
 future option; single WheatNet-IP port optional
 ^^ 8-16 GPIOs; dependent on channels available
 ^^ Future Feature