







Tieline G5/G6 Codec Comparison

						
	Bridge-IT Pro TLB5100P	Bridge-IT XTRA TLB5150	VIA TLF5300	Gateway-4 TLR6200-4 (4 channels only)	Gateway TLR6200-8 (8 channels with upgrade options)	Gateway TLR6200-16 (16 channels)
Backup						
Dual Internal Power Supplies		✓		✓	✓	✓
Internal Battery			✓			
Transport Backup/Failover			✓	IP; Euro ISDN Optional	IP only	IP only
SmartStream PLUS Redundant IP Streaming	✓	✓	✓	✓	✓	✓
Fuse-IP Network Bonding	✓***	✓***	✓	✓	✓	✓
Audio File Backup	SD Card	SD Card		SD and USB^^	SD and USB^^	SD and 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^	AES67/WheatNet-IP^	AES67/WheatNet-IP^
10/100 Ethernet Port	✓	✓				
Wi-Fi capable			Built-in	USB modem	USB modem ^^	USB modem ^^
USB Cellular Ports			2			
WheatNet-IP LAN Port				Via AoIP port 1	Via AoIP port 1	Via AoIP port 1
Module Slot			ISDN	Optional ISDN; Tech upgrades	Tech upgrades	Tech upgrades
Control Ports In/Out (GPIO)						
Relay inputs/opto-isolated outputs	2	4	4	8	16	16
Audio I/O Options						
AES67 in/out				4 in/out via RJ-45	8 in/out via RJ-45 #	16 in/out via RJ-45
Analog in/out	2 XLR in/out	2 XLR in/out	3 XLR in/2 XLR out	4 in/out via RJ-45	8 in/out via RJ-45	8 in/out via RJ-45
AES3 in/out	2 in /2 out	2 in /2 out	2 inputs	4 in/out via RJ-45	8 in/out via RJ-45 #	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				Up to 4 mono or 2 stereo*** (No channel upgrade option)	Up to 8 mono or 4 stereo (Channel upgrade options available) ***#	Up to 16 mono or 8 stereo ***
3 x Headphone outputs			✓			
6.35mm / 1/4" Front panel stereo headphone output		✓		✓	✓	✓
6.35mm / 1/4" Rear panel stereo headphone output	✓	✓				
6.35mm / 1/4" Front panel stereo headphone output or balanced line out (software switchable)						
6.35mm / 1/4" Rear panel stereo headphone output or balanced line out (software switchable)						
6.35mm / 1/4" Rear Panel Balanced Aux mic/line input						
Advanced Audio Features						
File record and playback capability			✓ SD Card	SD and USB^^	SD and USB^^	SD and USB^^
Internal SSD Storage (128GB)					✓	✓
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 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	✓	✓	✓	✓	✓	✓
Tieline Music, MusicPLUS, G.711, G.722, MPEG 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)			✓			
1 x stereo peer-to-peer plus mono IFB comms (bidirectional)			✓			
Multichannel IP (bidirectional): Note: Not all encoding available.				Up to 4 mono or 2 stereo#	Up to 8 mono or 4 stereo (Channel upgrade options available) ***#	Up to 16 mono or stereo 8
1 x Multicast	✓	✓		✓	✓	✓
Simultaneous Multicasts					up to 8 #	up to 16
1 x Multi-unicast; 1st connection bidirectional	up to 6 cxns	up to 6 cxns		up to 20 cxns	up to 80 cxns	up to 80 cxns
Simultaneous Multi-unicasts; 1st connection bidirectional for each stream					2, 3, or 6 - up to 80 cxns max	2, 3, or 6 - up to 80 cxns max
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 cards				✓^^	✓^^	✓^^
Product Webpage	www.tieline.com/bridge-it	www.tieline.com/bridge-it-xtra	www.tieline.com/via	www.tieline.com/gateway-4	www.tieline.com/gateway	www.tieline.com/gateway

* Optional Feature

** MP3 Decode only

*** One interface only available on Bridge-IT codecs

^ Single AES67 port standard; dual AES67 ports future option; single WheatNet-IP port optional via AoIP port 1

^^ Future Feature

8 and 16 channel versions available; flexible software channel upgrade options; fewer multicasts in 8 channel versions.