







# 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)
<b>Backup</b>						
Dual Internal Power Supplies		✓		✓	✓	✓
Internal Battery			✓			
Transport Backup/Failover			✓	IP; Euro ISDN Optional	IP; Euro ISDN Optional	IP; Euro ISDN Optional
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				✓	✓	✓
<b>AoIP Protocols</b>						
Dual Stack, IPv4/IPv6	✓	✓	✓	✓	✓	✓
SIP EBU N/ACIP 3326 compliant	✓	✓	✓	✓	✓	✓
SIP EBU N/ACIP 3368 compliant			✓	✓	✓	✓
I3P EBU3347 compliant			✓	✓	✓	✓
AES67, ST 2110-30, ST 2022-7^^, RAVENNA NMOS IS-4 & IS-05, Ember^^, SDP, SAP, mDNS (Bonjour)				✓	✓	✓
<b>Transports</b>						
Dual 10/100/1000 Ethernet Ports			✓	✓	✓	✓
Dual Gigabit AoIP Streaming Ports*: AES67/ST 2110-30/RAVENNA				✓	✓	✓
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	Optional ISDN; Tech upgrades	Optional ISDN; Tech upgrades
<b>Control Ports In/Out (GPIO)</b>						
Relay inputs/opto-isolated outputs	2	4	4	8	16	16
Virtual inputs, logical outputs, and WheatNet Logic Inputs/Outputs	✓	✓	✓	✓	✓	✓
<b>Audio I/O Options</b>						
AES67/ST 2110-30/RAVENNA in/out				4 in/out via RJ-45	8 in/out via RJ-45 #	16 in/out via RJ-45
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 *
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)			Mic 1			
Stereo Analog Line Input or Stereo Digital Input/Output			Mini Jack; Micro USB; S/PDIF			
3 x Headphone outputs			✓			
6.35mm / 1/8" Front panel stereo headphone output		✓		✓	✓	✓
6.35mm / 1/8" Rear panel stereo headphone output	✓	✓				
<b>Advanced Audio Features</b>						
File record and playback capability			✓ SD Card	SD and USB^^	SD and USB^^	SD and USB^^
Internal SSD Storage (128GB)					✓	✓
Matrix Editor Customizes Mixes, Input/Output Routing			✓	✓	✓	✓
Automated Program Scheduler			✓	✓	✓	✓
Input Compressors and Equalization			✓	✓	✓	✓
Configure Multiple SIP Accounts	✓	✓	✓	✓	✓	✓
Advanced IP security: SSL certificates, CSRF, Firewall Config, SIP Allow & Deny lists & User Agent Deny Lists	✓	✓	✓	✓	✓	✓
<b>Encoding Options</b>						
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			✓	✓	✓	✓
<b>Peer-to-Peer and Multipoint Connectivity</b>						
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)			✓			
Other peer-to-peer (bidirectional)				4 x mono; 2 x stereo & 2 x mono	4, 6, 8 x mono; 2, 3, 4 x stereo; 2 x stereo & 2 x mono; 1 x stereo & 4 x mono (Channel upgrade options available) *^^#	4, 6, 8, 16 x mono; 2, 3, 4, 8 x stereo; 2 x stereo & 2 x mono; 1 x stereo & 4 x mono; 5 x stereo & 6 x mono
Phase-locked surround sound audio streams					4.0, 5.1, 6.0, 7.1, 8.0	4.0, 5.1, 6.0, 7.1, 8.0
1 x Multicast	✓	✓		✓	✓	✓
Simultaneous Multicasts				2	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 up to 20 cxns max	2, 3, 4, 6, or 8; up to 80 cxns max	2, 3, 4, 6, 8 or 16; up to 80 cxns max
<b>Alarms</b>						
Silence Detection			✓	✓	✓	✓
PSU Failure		✓ LED	Status Bar Icon	✓	✓	✓
Lost Connection			✓	✓	✓	✓
Temperature Alarm	N/A	N/A	Battery Overheat	✓	✓	✓
AES Input Lost	✓	✓	✓	✓	✓	✓
AES Reference Lost			N/A	✓	✓	✓
SNMP	✓	✓	✓	✓	✓	✓
<b>Configuration Software Available</b>						
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				✓	✓	✓
<b>Product Webpage</b>						
	<a href="http://www.tieline.com/bridge-it">www.tieline.com/bridge-it</a>	<a href="http://www.tieline.com/bridge-it-xtra">www.tieline.com/bridge-it-xtra</a>	<a href="http://www.tieline.com/via">www.tieline.com/via</a>	<a href="http://www.tieline.com/gateway-4">www.tieline.com/gateway-4</a>	<a href="http://www.tieline.com/gateway">www.tieline.com/gateway</a>	<a href="http://www.tieline.com/gateway">www.tieline.com/gateway</a>

\* 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 channel version available with flexible software channel upgrade options; fewer multicasts in 8 channel versions.