






Tieline G5/G6 Codec Comparison

						
	Bridge-IT Pro TLB5100P	Bridge-IT XTRA TLB5150	VIA TLF5300	Merlin TLR5200M	Genie STL TLR5200S	Gateway TLR6200 (8-16 channels)
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	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^
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
Module Slot			ISDN	ISDN	ISDN	Tech upgrades
Control Ports In/Out (GPIO)						
Relay inputs/opto-isolated outputs	2	4	4	4	4	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; 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	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 (8 & 16 channel codec options available)						Up to 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 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): 8 & 16 channel options with software channel upgrades. Note: Not all encoding available.						Up to 16 mono or 8 stereo#
1 x Multicast	✓	✓			✓	✓
Simultaneous Multicasts						up to 16 #
1 x Multi-unicast; 1st connection bidirectional	up to 6 cxns	up to 6 cxns			up to 10 cxns	up to 80 cxns
Simultaneous Multi-unicasts; 1st connection bidirectional for each stream						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						✓ ^^
Hyperlink to Product Webpage	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

^ 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.