

Tieline G5/G6 Codec Comparison

								
	Bridge-IT II - TLB6100	Bridge-IT XTRA II - TLB6150	VIA Duo - TLF6320	VIA - TLF5300	Gateway 4 - TLR6200-4 (4 channels only)	Gateway - TLR6200-8 (8 channels/upgrade options)	Gateway - TLR6200-16 (16 channels)	Gateway Nexus-TLR6232 (32 channels)
Backup								
Dual Internal Power Supplies	12VDC plug pack	✓			✓	✓	✓	✓
Internal Battery			✓	✓				
Transport Backup/Failover	✓	✓	✓	✓	IP; Euro ISDN Optional	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 Card	SD Card	SD Card	SD Card
4 Output Audio Source Backup Options	✓	✓			✓	✓	✓	✓
AoIP Protocols								
Dual Stack, IPv4/IPv6	✓	✓	✓	✓	✓	✓	✓	✓
SIP EBU N/ACIP 3326 and 3368 compliant	✓	✓	✓	✓	✓	✓	✓	✓
I3P EBU3347 compliant	✓	✓	✓	✓	✓	✓	✓	✓
AES67 / ST 2110-30	✓	✓	✓		✓	✓	✓	✓
ST 2022-7		✓			✓	✓	✓	✓
NMOS IS-4, IS-05 and IS-07	✓	✓	✓		✓	✓	✓	✓
Ember+			✓		✓	✓	✓	✓
SDP, SAP, mDNS (Bonjour)	✓	✓	✓		✓	✓	✓	✓
RAVENNA	✓	✓	✓		✓	✓	✓	✓
Livewire+	✓	✓	✓		✓	✓	✓	✓
WheatNet-IP (requires optional card at purchase)					✓	✓	✓	
Dante (requires optional card at purchase)			✓		✓	✓	✓	✓
Transports								
Dual 10/100/1000 Ethernet Ports	Yes: LAN2 also switchable to AoIP	✓	10/100 LAN ports: LAN2 AoIP capable	✓	✓	✓	✓	✓
Gigabit AoIP Streaming Ports: AES67, ST 2110-30, ST 2022-7, RAVENNA, Livewire+	1 (LAN2 switchable to AoIP)	2	10/100 LAN2 port is AoIP capable*		2	2	2	2
WheatNet-IP LAN port **					AoIP port 1 only	AoIP port 1 only	AoIP port 1 only	
Dante LAN port ***			1 port only*		AoIP port 1 only	AoIP port 1 only	AoIP port 1 only	AoIP port 1 only
Wi-Fi capable	Control only	Control only	Built-in	Built-in	USB Wi-Fi (control only)	USB Wi-Fi (control only)	USB Wi-Fi (control only)	USB Wi-Fi (control only)
USB Cellular Ports	1	1	1	2				
Module / Optional Internal LTE Modem**			LTE modem**	Cellular/ISDN*	Optional ISDN*	Optional ISDN*	Optional ISDN*	Optional ISDN*
Control Ports In/Out (GPIO)								
Relay inputs/opto-isolated outputs	4	4	0	4	8	16	16	16
Virtual inputs, logical outputs, Livewire/WheatNet LIOs	✓	✓	✓	✓	✓	✓	✓	✓
Audio I/O Options								
Native AES67/ST 2110-30/Livewire+, RAVENNA in/out	2 in/out via RJ-45	2 in/out via RJ-45	4 channel in/out *		4 channels in/out	8 channels in/out #	16 channels in/out	32 channels in/out
Dante Sources/Destinations (flows) **			4 mono or 2 stereo *		4 mono or 2 stereo *		16 mono or 8 stereo *	32 mono or 16 stereo *
WheatNet-IP Sources/Destinations **					Up to 4 mono or 2 stereo *	Up to 8 mono or 4 stereo *#	Up to 16 mono or 8 stereo *	
Analog in/out	2 XLR 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	8 in/out via RJ-45
AES3 in/out	2 in via XLR / 2 out via RJ-45	2 XLR in/2 out via RJ-45	2 inputs via XLR	2 inputs	4 in/out via RJ-45	8 in/out via RJ-45 #	16 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			USB-C stereo input/output	Mini Jack; Micro USB; S/PDIF				
Headphone outputs	1	1	2	3	1	1	1	1
6.35mm / 1/8" Front panel stereo headphone output		✓			✓	✓	✓	✓
6.35mm / 1/8" Rear panel stereo headphone output	✓							
Advanced Audio Features								
SD card record / playback capability	Playback	Playback	Record/Playback	Record/Playback	Playback	Playback	Playback	Playback
Internal SSD Storage (128GB)					✓	✓	✓	✓
Matrix Editor: Customize Input & Output Routing Mixes	✓	✓	✓	✓	✓	✓	✓	✓
Automated Program Scheduler	✓	✓	✓	✓	✓	✓	✓	✓
Input compressor, EQ, noise gate and expander	✓	✓	✓	✓	✓	✓	✓	✓
Configure Multiple SIP Accounts	✓	✓	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓	✓	32kHz & 48kHz
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	✓	✓	✓	✓	✓	✓	✓	Music, MusicPLUS, G.711, G.722 (SIP), MPEG Layer II, AAC-LC, MP3
aptX Enhanced	✓	✓	✓	✓	✓	✓	✓	✓
Opus	✓	✓	✓	✓	✓	✓	✓	✓
Bidirectional IFB communications channel			✓	✓	✓	✓	✓	✓
Peer-to-Peer and Multipoint Connectivity								
User Defined Programs: create connections in any order					✓	✓	✓	✓
1 x stereo peer-to-peer plus mono IFB (bidirectional)				✓				
Other peer-to-peer streams (bidirectional)	Mono, dual mono or stereo, G3 Mono +IFB	Mono, dual mono or stereo, G3 Mono + IFB	Mono, dual mono, stereo, Mono + IFB	1, 2, or 3 mono, stereo + mono, mono/stereo + IFB	1, 2, 3, 4 mono; 1 or 2 stereo; 1 stereo & 2 mono	8 mono or 4 stereo streams (channel upgrade options)*#	16 mono or 8 stereo streams (or a mix or mono and stereo)	32 mono or 16 stereo streams (or a mix or mono and stereo)
Phase-aligned surround sound audio streams					4	4.0, 5.1, 6.0, 7.1, 8.0	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	up to 32
1 x Multi-unicast; 1st connection bidirectional	up to 6 cxns	up to 10 cxns			up to 20 cxns	up to 80 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	2, 3, 4, 6, 8, 16 or 32; up to 80 cxns max
HTTP Streaming - Icecast or Shoutcast	✓	✓	✓	✓	✓	✓	✓	✓
Alarms								
Silence Detection	✓	✓	✓	✓	✓	✓	✓	✓
PSU Failure		✓ Front Panel LEDs	Status Bar Icon	Status Bar Icon	✓	✓	✓	✓
Lost Connection	✓	✓	✓	✓	✓	✓	✓	✓
Temperature Alarm	N/A	N/A	Battery Overheat	Battery Overheat	✓	✓	✓	✓
AES Input Lost	✓	✓			✓	✓	✓	✓
AES Reference Lost	✓	✓	N/A	N/A	✓	✓	✓	✓
SNMP	✓	✓	✓	✓	✓	✓	✓	✓
Configuration Software Available								
Cloud Codec Controller for Network Management	✓	✓	✓	✓	✓	✓	✓	✓
HTML ToolBox Web-GUI for codec configuration	✓	✓	✓	✓	✓	✓	✓	✓
TieLink Traversal Server for simple connections			✓	✓	✓	✓	✓	✓
Wheatstone Navigator for WheatNet-IP routing**					✓	✓	✓	✓
Dante Controller for Dante flow routing**			✓		✓	✓	✓	✓
Product Webpage								
	www.tieline.com/bridge-it-ii/	www.tieline.com/bridge-it-ii/	www.tieline.com/via-duo/	www.tieline.com/via/	www.tieline.com/gateway-4/	www.tieline.com/gateway/	www.tieline.com/gateway/	www.tieline.com/gateway-nexus/

* Optional Feature

** Requires optional card installed at purchase

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

^ Dante redundancy not supported