







Tieline G5/G6 Codec Comparison

						
	Bridge-IT II - TLB6100	Bridge-IT XTRA II - TLB6150	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	12VDC plug pack	✓		✓	✓	✓
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 Card	SD Card	SD Card
4 Output 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	✓	✓		✓	✓	✓
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	✓	✓	✓	✓	✓
Gigabit AoIP Streaming Ports: AES67/ST 2110-30/ST 2022-7/RAVENNA, Livewire+	1 (LAN2 switchable to AoIP)	2		2	2	2
WheatNet-IP LAN port **				AoIP port 1 only	AoIP port 1 only	AoIP port 1 only
Dante LAN port **^				AoIP port 1 only	AoIP port 1 only	AoIP port 1 only
Wi-Fi capable	Control only	Control only	Built-in			
USB Cellular Ports	1	1	2			
Module Slot			ISDN	Optional ISDN; Tech upgrades	Optional ISDN; Tech upgrades	Optional ISDN; Tech upgrades
Control Ports In/Out (GPIO)						
Relay inputs/opto-isolated outputs	4	4	4	8	16	16
Virtual inputs, logical outputs, and Livewire/WheatNet Logic Inputs/Outputs	✓	✓	✓	✓	✓	✓
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 in/out via RJ-45	8 in/out via RJ-45 #	16 in/out via RJ-45
Dante Sources/Destinations (flows) **				Up to 4 mono or 2 stereo * (No channel upgrade option)	Up to 8 mono or 4 stereo (Channel upgrades available) **	Up to 16 mono or 8 stereo *
WheatNet-IP Sources/Destinations **				Up to 4 mono or 2 stereo * (No channel upgrade option)	Up to 8 mono or 4 stereo (Channel upgrades 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 via XLR / 2 out via RJ-45	2 in via XLR / 2 out via RJ-45	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			
3 x Headphone outputs			✓			
6.35mm / 1/8" Front panel stereo headphone output		✓		✓	✓	✓
6.35mm / 1/8" Rear panel stereo headphone output	✓					
Advanced Audio Features						
File record and playback capability	SD Card	SD Card	SD Card	SD Card	SD Card	SD Card
Internal SSD Storage (128GB)						✓
Matrix Editor to Customize Input & Output Routing & Mixes	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓
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						
User Defined Programs: create mono, stereo, multicast, multi-unicast, and phase-aligned multichannel 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	1, 2, or 3 mono	1, 2, 3, 4 mono; 1 or 2 stereo; 1 stereo & 2 mono	1, 2, 3, 4, 6, 8 mono; 2, 3, 4 stereo; 2 stereo & 2 mono; 1 stereo & 4 mono (Channel upgrade options avail) **	1, 2, 3, 4, 6, 8, 16 mono; 1, 2, 3, 4, 8 stereo; 2 stereo & 2 mono; 1 stereo & 4 mono; 5 stereo & 6 mono
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
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 10 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
HTTP Streaming - Icecast or Shoutcast	✓	✓	✓	✓	✓	✓
Alarms						
Silence Detection	✓	✓	✓	✓	✓	✓
PSU Failure		✓ Front Panel LEDs	Status Bar Icon	✓	✓	✓
Lost Connection	✓	✓	✓	✓	✓	✓
Temperature Alarm	N/A	N/A	Battery Overheat	✓	✓	✓
AES Input Lost	✓	✓	✓	✓	✓	✓
AES Reference Lost	✓	✓	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/	www.tieline.com/gateway-4/	www.tieline.com/gateway/	www.tieline.com/gateway/

* 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