



Gateway

# Product Catalog 2022

## About Tieline

Tieline has been providing solutions to the broadcast industry for almost 40 years and manufactures the world's leading STL, audio distribution and remote broadcast digital audio codecs.

The company has won numerous awards for innovation in technology and thousands of customers around the world rely on Tieline codecs every single day for reliable broadcast solutions.

The company has offices in Australia and North America, supporting a global distribution network spanning the Americas, Europe, UK, Africa, Asia, Middle East and Australasia.

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## Gateway (TLR6200-16)



### The Highest Density DSP-Powered 1RU IP Audio Codec

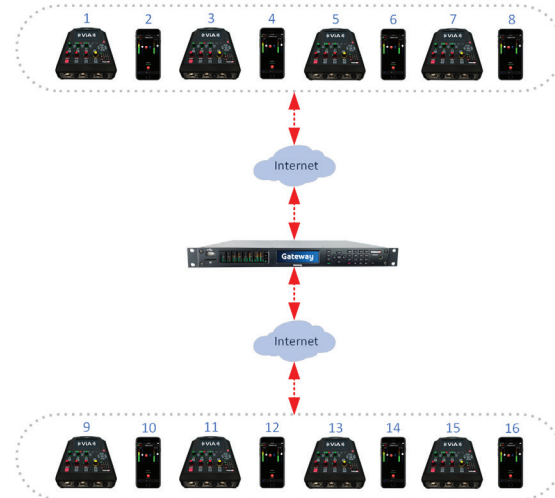
- 16 Bidirectional Mono or 8 Bidirectional Stereo IP streams over WANs
- Perfect for Audio Distribution, Remotes, Studio-to-Studio links and STLs
- Dual Ethernet ports, AoIP ports and power supplies for redundancy
- Seamless redundant packet switching over dual Ethernet ports
- Analog and AES3 IO on RJ45 StudioHub® format
- AoIP ready and AES67 compliant; 1-8 channels per stream, 125µs to 4ms packets
- ST 2110-30, Class A, AX, B, BX compliant, with ST 2022-7 Seamless Protection Switching
- NMOS IS-04 & IS-05 Discovery, Registration and Connection Management
- Optional WheatNet-IP or Dante®^ card, or connect to these networks in AES67 compatibility mode when no card installed.
- Native Livewire+™ and RAVENNA interoperability
- 10 Band EQ, Compressor and IGC Limiting on all analog inputs
- Configurable Matrix Editor with custom pre-sets
- 16 backup audio clip players for compressed or uncompressed audio files from SD card, USB^ or SSD^
- Solid-State Drive supports

record, store and forward use cases for network syndication applications^

- Uncompressed audio and a huge range of encoding/decoding options
- 4, 6 and 8 channels of phase-locked surround sound encoding

- Multicasting and multi-unicasting (up to 80 endpoints)
- HTTP Icecast or SHOUTcast streaming
- Fully SIP EBU N/ACIP 3326, I3P 3347 and 3368 compliant
- Module slot for EURO ISDN and future technologies

#### 16 Simultaneous Mono Connections



### Gateway 8 (TLR6200-8)

Upgradable 8 Channel (8 Mono or 4 Stereo) model available.

## Gateway 4 (TLR6200-4)

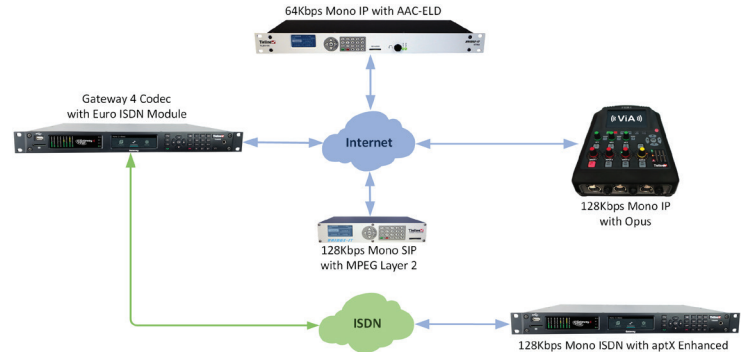


### The New Generation 4 Channel Audio Codec

- 4 Bidirectional Mono or 2 Bidirectional Stereo IP streams over WANs
- Perfect for Remotes, Studio-to-Studio Links and STLs
- Stream IP audio over WANs
- Analog and AES3 IO on RJ45 StudioHub® format or DB25 with TASCAM® Pinout
- Dual Ethernet ports, AoIP ports and power supplies for redundancy
- Seamless redundant packet switching over dual Ethernet ports
- AoIP ready and AES67 compliant; 1-8 channels per stream, 125µs to 4ms packets
- ST 2110-30, Class A, AX, B, BX compliant, with ST 2022-7 Seamless Protection Switching
- NMOS IS-04 & IS-05 Discovery, Registration and Connection Management
- Optional WheatNet-IP or Dante® card, or connect to these networks in AES67 compatibility mode when no card installed.
- Native Livewire+™ and RAVENNA interoperability
- 10 Band EQ, Compressor and IGC Limiting on all analog inputs
- Configurable Matrix Editor with custom pre-sets
- 4 backup audio clip players for compressed or uncompressed

- audio files from SD card, USB<sup>^</sup> or SSD<sup>^</sup>
- Optional Solid-State Drive supports record, store and forward use cases for network syndication applications<sup>^</sup>
- Uncompressed audio and a huge range of encoding/decoding options
- 4 channels of phase-locked surround sound encoding

- Multicasting and multi-unicasting (up to 20 endpoints)
- HTTP Icecast or SHOUTcast streaming
- Fully SIP EBU N/ACIP 3326, I3P 3347 and 3368 compliant
- Module slot for EURO ISDN and future technologies





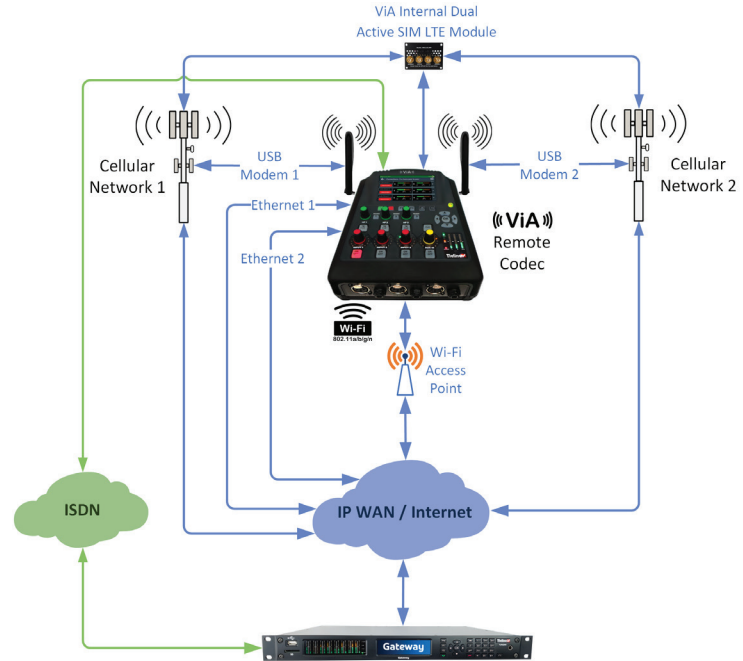
## ViA (TLF5300)

### Portable Remote Audio Codec

Reimagine remote broadcasting with the revolutionary ViA portable remote codec.



- Non-technical, simple-to-connect touch screen
- Bidirectional Stereo, or 2 x Mono connections, or 3 x Mono connections
- Bidirectional Stereo and separate IFB Mono communications circuit.
- Stream live, record and play audio files from playlists
- FTP audio files for podcasting or studio ingest.
- Dual LAN & USB ports & optional ISDN, LTE and Dual active SIM Modules.
- IP and ISDN Backup options
- Built-in dual-band Wi-Fi with integrated web portal.
- Input EQ and compression, plus IGC and AGC limiting
- HTTP Icecast and SHOUTcast streaming<sup>^</sup>
- Up-to 6.5hrs power with one internal battery
- Free IP Bonding with Fuse-IP software
- Free SmartStream PLUS redundant IP streaming
- Free road case and battery included
- Connect simply using the TieLink Traversal Server
- New features added FREE with firmware updates.



## Bridge-IT XTRA (TLB5150XTRA)



The ultimate inexpensive IP audio codec for low cost STL's, multipoint IP links and remotes.

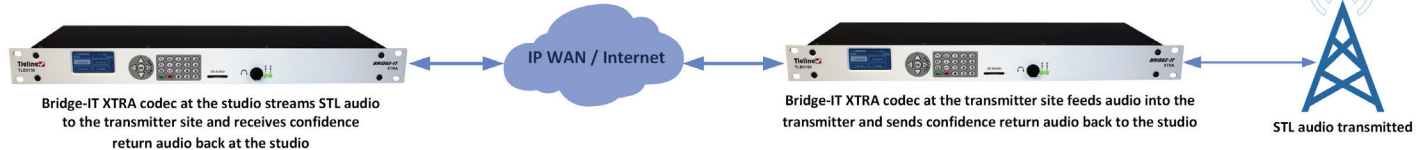
- AAC, Opus and aptX® Enhanced Algorithms
- Multicasting and Multi-unicasting to up to 6 endpoints
- Dual internal power supplies
- Audio SD/SDHC audio file backup.

## Bridge-IT PRO (TLB5100PRO)



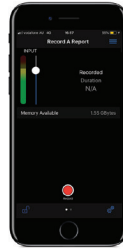
The low cost, high-performance, point-to-point and multi-point stereo IP audio codec solution.

- Audio SD/SDHC Card backup.
- Opus, AAC and many other algorithms as standard.
- aptX® Enhanced Algorithm (Optional)
- Multicasting and Multi-unicasting to up to 6 endpoints.



## Report-IT Enterprise Edition (TLREPORT-IT)

Turn your iPhone® or Android™  
Smartphone into an IP audio codec.  
(Includes 10 users)



Use Report-IT Enterprise to centrally manage multiple users from the studio using cloud technology. As an administrator, create user accounts with your unique connection settings, so they can log in remotely and connect to designated Tieline studio codecs or share servers. Report-IT provides exceptional network security and makes it simple for users to connect.

### Annual Renewal (TLRENEWAL)

Annual Renewal of Report-IT Enterprise.

### Additional 10 Users (TLREEADDITIONAL)

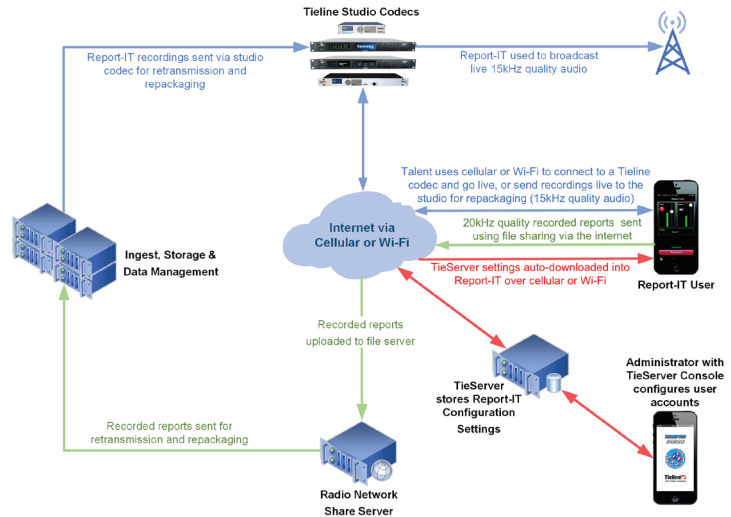
Add additional users as your network grows. (Sold in packs of 10)

### Tieserver Console PC/Mac (TLTIESERVER)

Manage all users and account settings. Alternatively use the FREE smartphone app to configure users and account settings.

### SIP (TLREPORTITSIP) Annual Renewal (TLRENEWALSIP)

Optional SIP Tieserver subscription upgrade to connect to non-Tieline N/ACIP 3326 compliant codecs

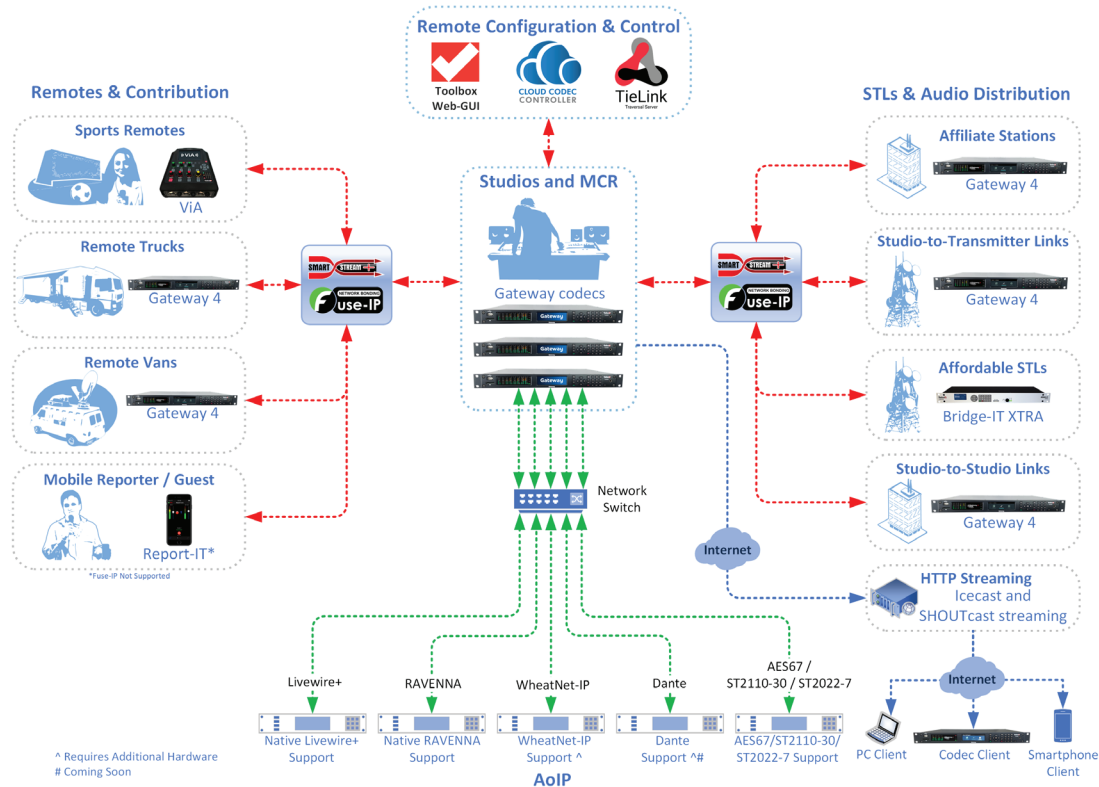


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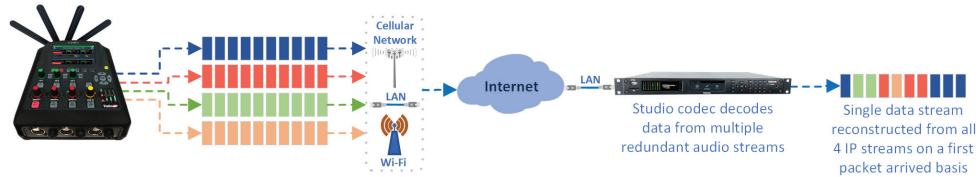
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# Tieline Codec Applications





## SmartStream PLUS and Fuse-IP

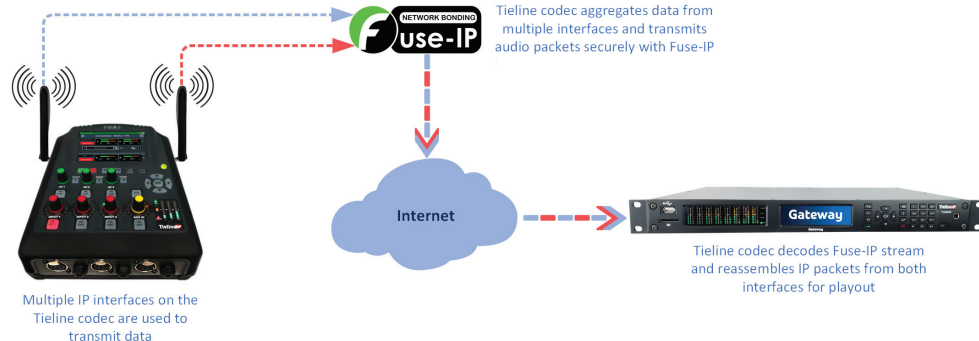


### SmartStream PLUS

Send simultaneous IP audio streams from different data interfaces and get multiple layers of redundancy. Hardware codecs support a primary and up to three redundant streams for each IP audio stream to deliver perfect audio playout. When multiple redundant streams are sent, the decoding codec automatically reconstructs audio into a perfect single stream on a first packet received basis.

### Fuse-IP

Imagine the peace of mind knowing you can bond Ethernet ports, cellular or Wi-Fi from different Telcos and let Tieline's Fuse-IP technology automatically manage the data capability of each link!



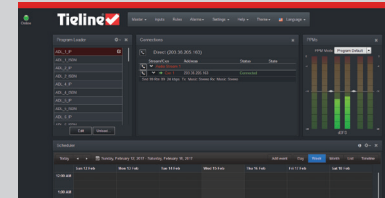
# Codec Management Software

## HTML5 Toolbox

Gateway, Gateway 4, Bridge-IT and ViA codecs can be configured using the Toolbox HTML5 web-GUI.

Toolbox can be connected to a single codec independently over a LAN connection to deliver network and device level configuration capabilities.

- Create new connection profiles (programs)
- Change codec settings
- Upgrade codec software
- Adjust input levels
- Adjust connection settings, view connection statistics, adjust algorithms, jitter buffers, bitrates and more
- Program GPIO input/outputs
- Configure Alarms (ViA)
- Toolbox comes free with all Gateway, Gateway 4, Bridge-IT and ViA codecs.
- Multilingual



## Cloud Codec Controller

Manage an entire fleet of Tieline codecs and all Report-IT users in real time from the studio, even when connected to cellular & Wi-Fi networks!

## Public Internet License (TLCLOUDCONTROL)

## Private Network License (TLCLOUDNETWORK)

## Annual Renewal (TLCLOUDRENEW)

## Add Licenses (TLCLOUDADD)

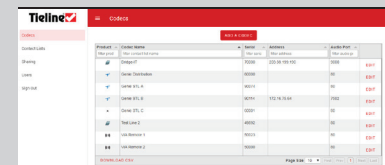
- Real-time online and offline status of Tieline codecs and users logged into Report-IT Enterprise
- Monitoring of connection status, link quality and audio levels
- Remote adjustment of audio levels
- The ability to dial and hang-up remote codec connections from the studio.
- Alarm notifications and management



## TieLink Traversal Server

The Traversal Server centralizes Tieline codec contact list management and provides self-discovery of codecs within 'groups'. It also provides NAT traversal to simplify connections.

- The Traversal Server automatically detects a codec's IP address and NAT routing information.
- The registered codec appears in the address books of all other codecs registered with the TTS and connected to the internet.
- Easily view the online or offline status of all codecs in a group and whether it is connected or disconnected.



## Accessories / Upgrades

### Bridge-IT

#### Bridge-IT Rack Frame

- Part No: TLB5100RFBP

#### Bridge-IT Software (For Bridge-IT Basic only)

- AAC Part No: TLITACC
- Multicasting Part No: TLBMULTI
- APT Part No: TLAPT

### ViA

#### ViA Expansion Modules

- ViA (ST) ISDN Part No: TLISDNEUROVIA
- ViA (U) USA ISDN Part No: TLISDNUSAVIA
- ViA LTE Part No: TL3G4GVIA
- ViA Dual Active SIM LTE Module (European) Part No: TL3G4GDUALVIA,
- ViA Dual Active SIM Multi Network Module (USA: Multiple Network)  
Part No: TL4GDUALMULTI

### Gateway 4 & Gateway 8/16

#### Gateway Expansion Modules

- Gateway (TLR6200-4 / TLR6200-8 / TLR6200-16) ISDN Part No: TLISDNEUROG6

#### Gateway AoIP Expansion Card

- Gateway 4 (TLR6200-4) WheatNet-IP Part No: TLWNET4
- Gateway (TLR6200-8 / TLR6200-16) WheatNet-IP Part No TLWNET

#### Gateway 8 (TLR6200-8) Channel Upgrade

- 2 Channel Upgrade (1 Stereo)^: TLR6200-LIC1ST
- 4 Channel Upgrade (2 Stereo)^: TLR6200-LIC2ST
- 8 Channel Upgrade (4 Stereo): TLR6200-LIC4ST

# Tieline®

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