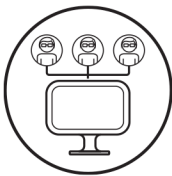**softGear**

INTERSTELLAR
STREAMING GATEWAY

REMOTE INTEGRATION SIMPLIFIED

Remote contribution has and continues to present many challenges for broadcasters. The main frustration being the extensive equipment set up at each remote contributors' site necessary for integration into a central studio. A much needed and heavily requested solution has been a system which requires no special equipment at the contributor site and manages the flow of media to and from the studio simply and effectively.

The Interstellar Streaming Gateway is a broadcast-grade 1RU appliance for the production studio that bridges to remote WebRTC contributors working in the Interstellar workflow. It can ingest 4 contributors presenting a synchronized SDI interface to the production studio core. Additionally, it provides return video, audio and IFB to the contributors' web browsers. This provides a full studio-side bridge for a complete Interstellar studio implementation.
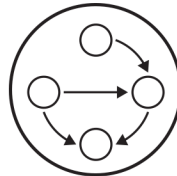
The Streaming Gateway receives WebRTC streams from remote contributors and converts them directly to SDI for consumption in the main production core. It takes care of audio and video conversion and synchronization, so no additional glue is required. The gateway also provides the ability to send studio production feeds, such as program or multiviewers to remote contributors along with accompanying IFB audio. This solution is easy to deploy into a traditional broadcast rack environment and is centrally managed by as part of the Interstellar workflow. Contributors need only worry about contributing content and not managing contribution connections.

The Interstellar Streaming Gateway is built on softGear, which gives flexibility to the rapidly changing needs of today's broadcasters, providing software media processing built on a scalable microservice platform ideal for on-premise or cloud deployment.

REMOTE TALENT SIMPLIFIED

Ingest remote video, audio and talkback. Return video, audio and IFB. All to remote web browsers, without any setup at the remote site.

INTEGRATED WORKFLOW

The Streaming Gateway is seamlessly integrated into the Interstellar workflow and centrally managed via DashBoard.

SECURE AND ROBUST

Deploy a robust and secure appliance on premise to bridge remote contributors to your production core. Not reliant on 3rd-party brokers or cloud gateway
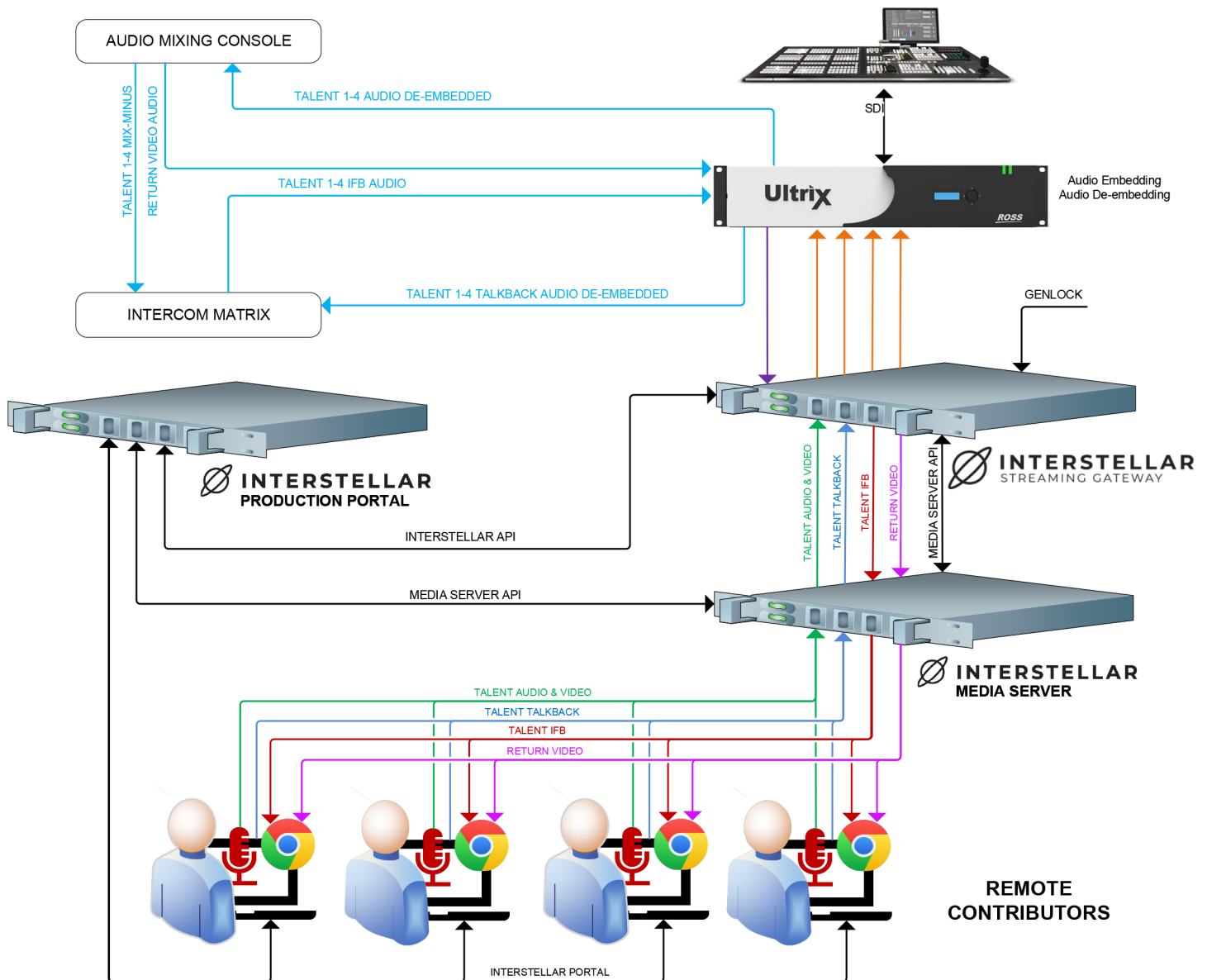
ROSS
LIVING LIVE!

APPLICATIONS

The Interstellar Streaming Gateway integrates with your existing production switchers, routers and workflows through standard SDI connectivity. It is tightly integrated with both the Interstellar Media Server and Interstellar Production portal to control the WebRTC streaming interfaces to the remote contributors.

The Interstellar Streaming Gateway accepts WebRTC audio/video streams from remote contributors and feeds your production interface via 4 frame-synchronized SDI outputs. Contribution audio and talkback is embedded, so an audio de-embedder (or audio-capable router like Ultrix) can de-embed these audio channels feed audio production and intercom. The SDI input accepts return video from production with embedded IFB audio for each remote contributor. The Interstellar Streaming Gateway features an audio mapper that creates unique return streams for each contributor with their tailored audio content.

Control and setup are a snap. Operational control of the Interstellar Streaming Gateway is managed via the Interstellar production portal and initial setup can be performed via DashBoard.

SPECIFICATIONS

VIDEO

Standards
- HD-SDI (SMPTE ST 274)
- 3G-SDI (SMPTE ST 424)

Format Support
- 720p50/59.94
- 1080i 50/59.94
- 1080p 23.98/25/29.97/50/59.94

Network Streams
- 4 - Decode
- 1 - Encode
- 16 – audio channels per stream

Codecs
- H.264 (Constraint Baseline)
- OPUS

Transport
- WebRTC

I/O Ports

Front
1- Audio Jack
1- USB 3.1 Type C
2 - USB 3.1 Type A
1- SD Card Reader

Rear
2 - USB 3.1 Type C/iGFX Display Port
1 - Remote Power Switch connector
1 - Serial port
2 - RJ45 GbE Network

Video Interface
- 1 x SDI Output
- 4 x SDI Input
- 1 x Genlock Input
- DIN 1.0/2.3 Jacks

PHYSICAL

Dimensions
HxWxD: 1.68" (42.8 mm) x 18.98"
(482.0 mm) x 23.19" (589.1 mm)

Weight
20lbs (9.1kg)

Power
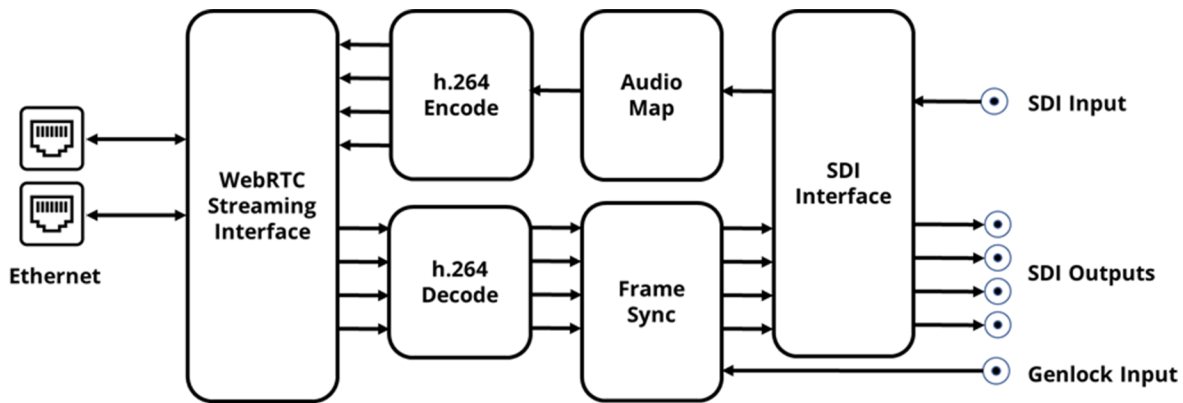Dual redundant hot pluggable
550W (80PLUS Platinum certified)

Operating Temperature
10C – 35C

Included Accessories
9 - DIN / BNC Pigtails
2 - Line Cord
1 - Rack Rail Kit

BLOCK DIAGRAM

The Interstellar Streaming Gateway is ordered as part of an Interstellar Production Portal system.

ORDERING CODE	DESCRIPTION
SG-SGW-IS-PKG	Interstellar Streaming Gateway
SG-SGW-IS-PKG-HM	Hardware Maintenance – 1 Year
SG-SGW-IS-PKG-SM	Software Maintenance – 1 Year

The Interstellar Streaming Gateway provides all the streaming interfaces required for one Interstellar studio.

INTERSTELLAR EDITION	# REMOTE STUDIOS	# USERS	# STREAMING GATEWAYS
PRIME	1	5	1
EXPRESS	2	10	2
STANDARD	5	25	5

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