

High-end FPGA-based PCI-Express Card

# Griffin

*Built for Speed*



## Powered by Intel® Agilex™ 7 F series FPGA

- Griffin is a single slot card with a full height, 3/4 length form factor and runs on servers with 3<sup>rd</sup> generation Intel® Xeon® scalable processors.
- External I/F includes two QSFPs up to 100 Gbps and SMA connectors for 1PPS in/out.
- Internal memory boasts 16GB DDR4 for FPGA Fabric and 2GB DDR4 for the Arm® Cortex® -A53 CPU with embedded FPGA.

### Specifications \*current to December 2023

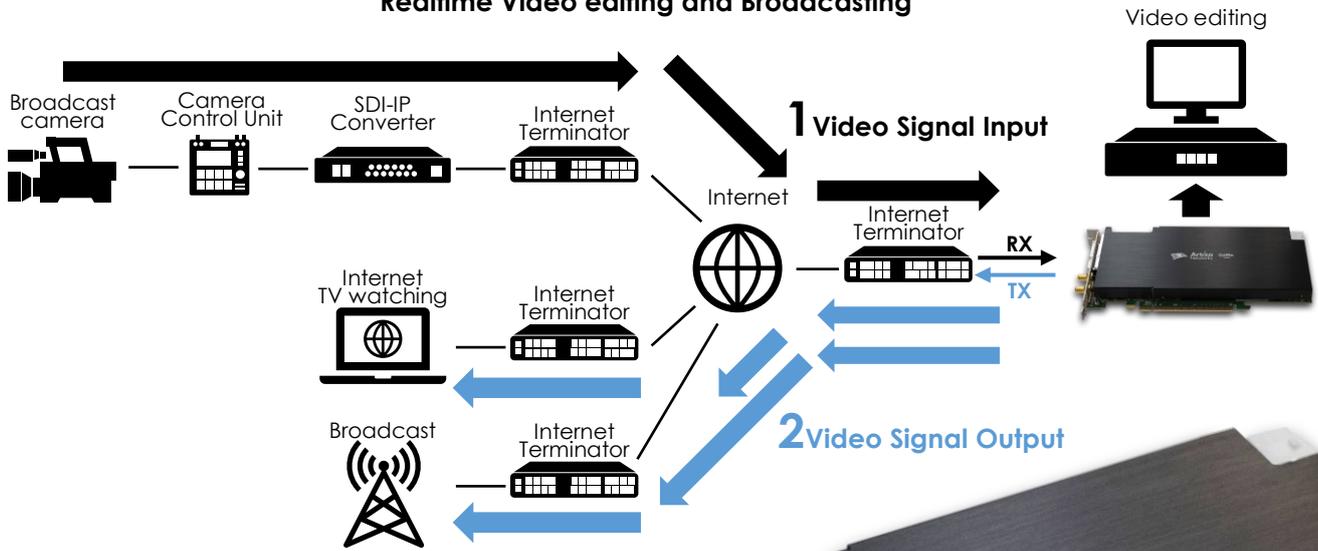
Name	Griffin
FPGA	Intel® Agilex™ 7 AGFB027R25A2I2V
Ethernet I/F	100GbE x2 /25GbE x2 x2/10GbE x8
Form Factor	PCI Express Gen.4 x16
RAM	16GB DDR4 (FPGA Fabric) + 2GB DDR4 (For CPU with built-in FPGA)
Card Size	Full Height 3/4 Length
Power	Bus power : max 75W + 4x2 pin connector max: 150W (cannot be operated with only bus power)
Board Management Chip	Intel® MAX® 10
Time Synchronization	IEEE 1588 support, 1PPS in/out SMA connector

## ~ Griffin Use Cases ~

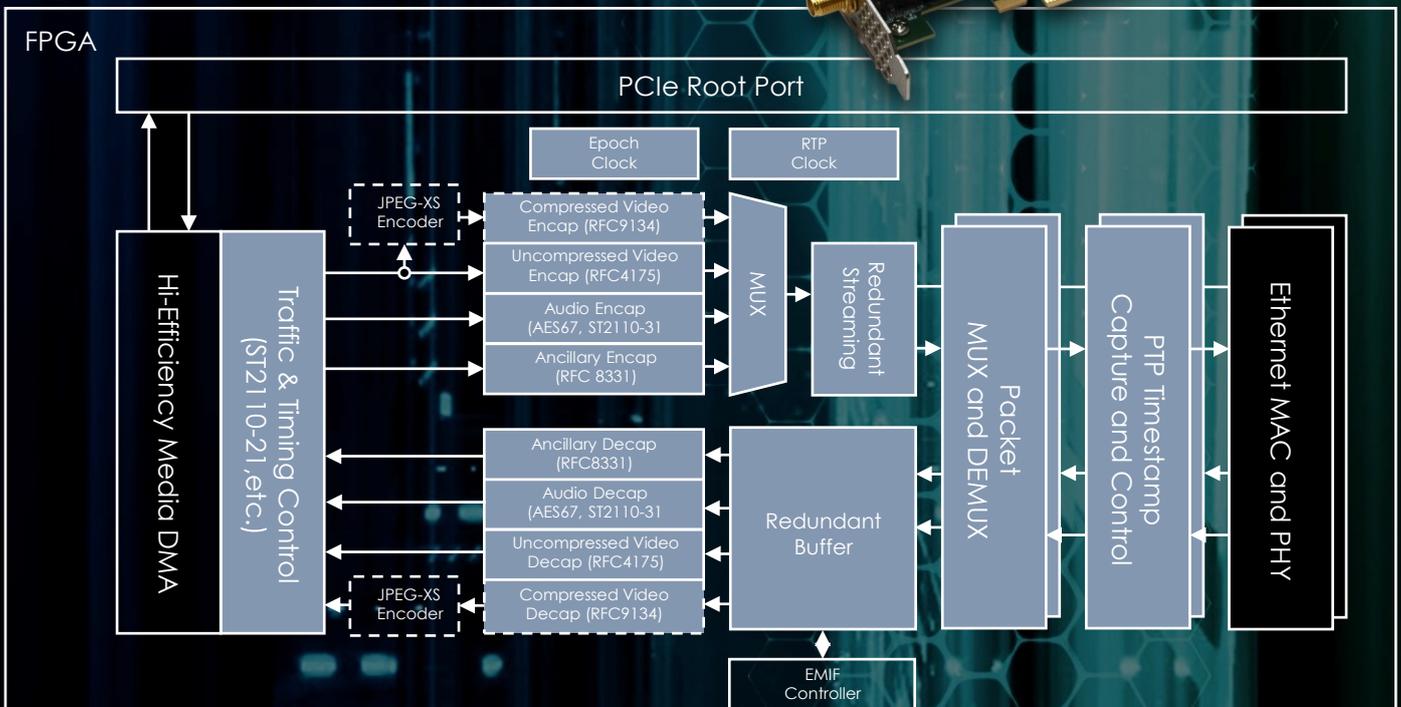
Incorporating the ST2110 IP Package (e.g., Macnica Media over IP Package) makes Griffin a powerful solution for processing video signal input/output and editing purposes for the broadcasting industry. The IP input/output provides Griffin with up to 100Gbps throughput, higher than the conventional 12G-SDI, and the high-performance processing of the large-scale FPGA enable multi-system input/output of 4K video.

\* A video transmission demo that incorporates the Media over IP Package into Griffin will be completed after November 2023.

### Realtime Video editing and Broadcasting



### Block diagram of IP video transmission



ST2110 IP Package / Macnica Media over IP Package ▶ <https://www.m-pression.com/solutions/hardware-software/media-over-ip-package>

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\* Product specifications and descriptions in this document are subject to change without notice.

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