

Infrastructure & Processing

Spotlight on: emVIRTU

Dealing with a wide range of signal types, formats, frame rates, timing, color space and resolutions can be a challenge for TV production.

The emVIRTU All-IP Core Infrastructure and Processing Platform from Embrionix provides an extremely dense array of Embrionix software-defined emSFP™ IP processors in just 1RU. Designed to address signal processing and SDI to IP conversion for mission-critical and SD-up-to-UHD IP production environments, the platform allows users to build their key advanced processing power modularly, as their needs grow!



KEY BENEFITS

- ✓ Virtualized! Fits anywhere!
- ✓ Virtually no point of failure
- ✓ Passive hub = full resiliency!
- ✓ Minimize OPEX!
- ✓ Reduce energy costs
- ✓ Support for SD up to UHD IP production
- ✓ Optimize bandwidth to your core
- ✓ Modular -build as you grow!
- ✓ Highly robust solution – Redundant power supply & full support for ST 2022-7 (via independent 100 GE links)

ADVANCED PROCESSING

- ✓ SMPTE ST 2110 Up/Down/Cross Converters
- ✓ SMPTE ST 2110 Frame Synchronizers
- ✓ Clean Switching
- ✓ Color Correction Processing
- ✓ Quad Split Multiviewer
- ✓ SMPTE ST 2110 Gateways
- ✓ Quad Links Flow to Single-Link UHD

emVIRTU: EQUIP YOUR CORE

The emVIRTU comprises eight (8x) dual sets of 100GE aggregation links that connect directly to an IP core switch. Control, synchronization and data use the same interface, minimizing cabling. Aggregation bandwidth reaching up to 1.6Tb/s allows broadcasters and other users to produce high-resolution UHD, 3G, HD, SD content efficiently and without constraints.

When fully loaded, the emVIRTU optimizes its available 1600Gb/s bandwidth by up to 90%.

Depending on the needs of the user, the emVIRTU is designed to offer:

- ✓ A combination of up to 64 x UHD advanced IP processing functions or
- ✓ A combination of up to 256 HD advanced IP processing functions
- ✓ UHD and HD can be used simultaneously

For more information, please contact sales@embrionix.com

