

# emMODULAR

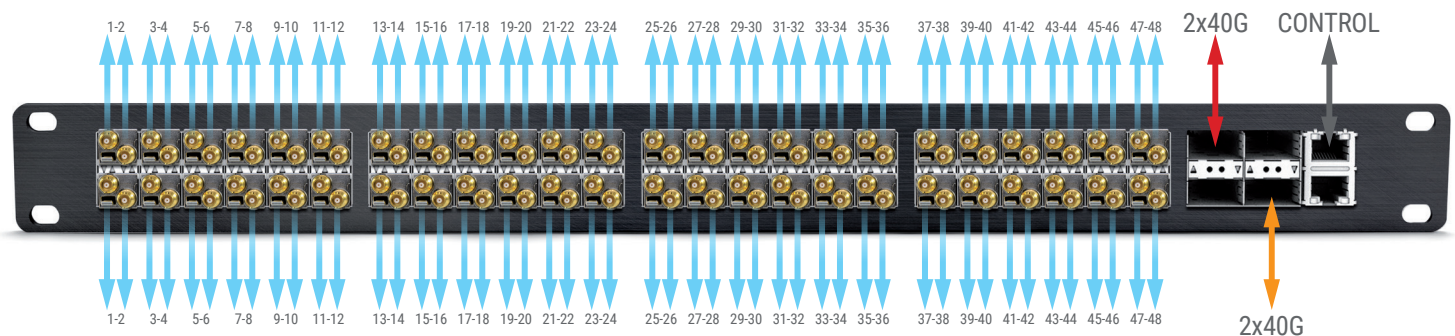
## Modular Broadcast Media Aggregator

The Embrionix's emMODULAR aggregation frame accommodates 48 emSFP modules with SDI to IP encapsulation and decapsulation as well as other IP processing functions. Each flow injected inside the frame can be segmented to be independently routed, thus prevent data from one core switch to get to the other core switch and vice versa.

The frame can be used for bulk gateway conversion, simple IP signal aggregation or any other IP signal processing functions.

The emMODULAR reconciles generic IT technologies and Embrionix expertise to deliver an IP platform that meets requirements of real-time, highly mission critical broadcast applications.

### FUNCTIONAL DIAGRAM



## KEY DIFFERENTIATING FACTORS

- Modular approach
  - 48 times emSFP slots modularity, one or two channels per slot
- System scalability:
  - Leverages Spine/Leaf cost effective architecture aggregating up to 96 SDI to IP gateways in 160G to the core switches
- Fast setup:
  - Factory configured for Broadcast applications reducing dramatically the setup time
- High density solution:
  - Up to 96 Gateway conversion in a single 1RU

## BENEFITS

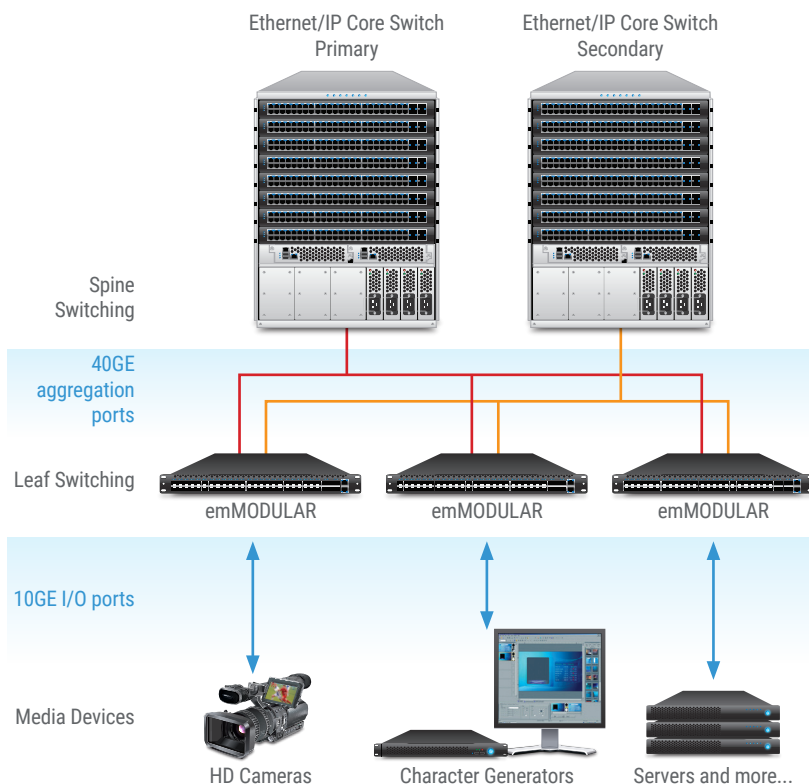
- ✓ Fast and simplified setup
- ✓ Deterministic system behaviour
- ✓ Cost efficient solution
- ✓ Best use of your space
- ✓ Piece of mind maintenance

## ORDERING INFORMATION

**emMODULAR-48-4** Modular 48x emSFP slots with 4x40G aggregation ports frame (1RU)

For more information please contact  
[sales@embrionix.com](mailto:sales@embrionix.com)

## OPTIMIZED AND ROBUST ARCHITECTURE



The emMODULAR is well suited for optimized IP network topologies. The emMODULAR replaces the TOR/Leaf IT equipment to aggregate audio, video and metadata streams to the core IP switches.

In typical redundant architectures, the emMODULAR keeps the two networks totally isolated while receiving flows from both networks to provide the Hitless redundancy feature. Signals are connected to the aggregator via emSFP modules that can receive and send IP flows as well as decapsulate or encapsulate SDI signals.

emMODULAR layer 3 aggregator supports IGMP (V2 and V3) protocols and is configured for simple aggregation of flows, removing the possibility to forward multicast flows from one network into another.