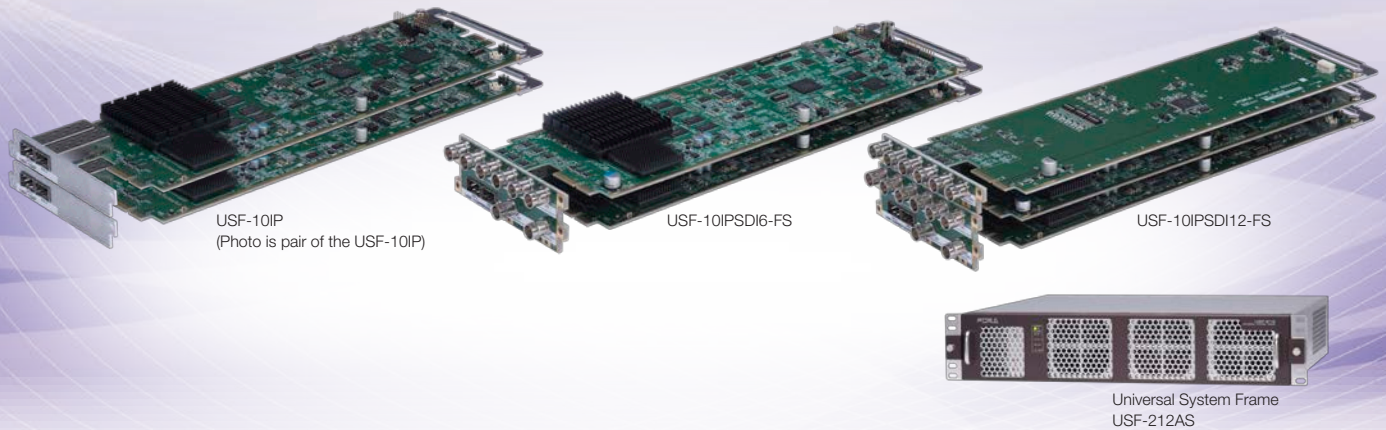


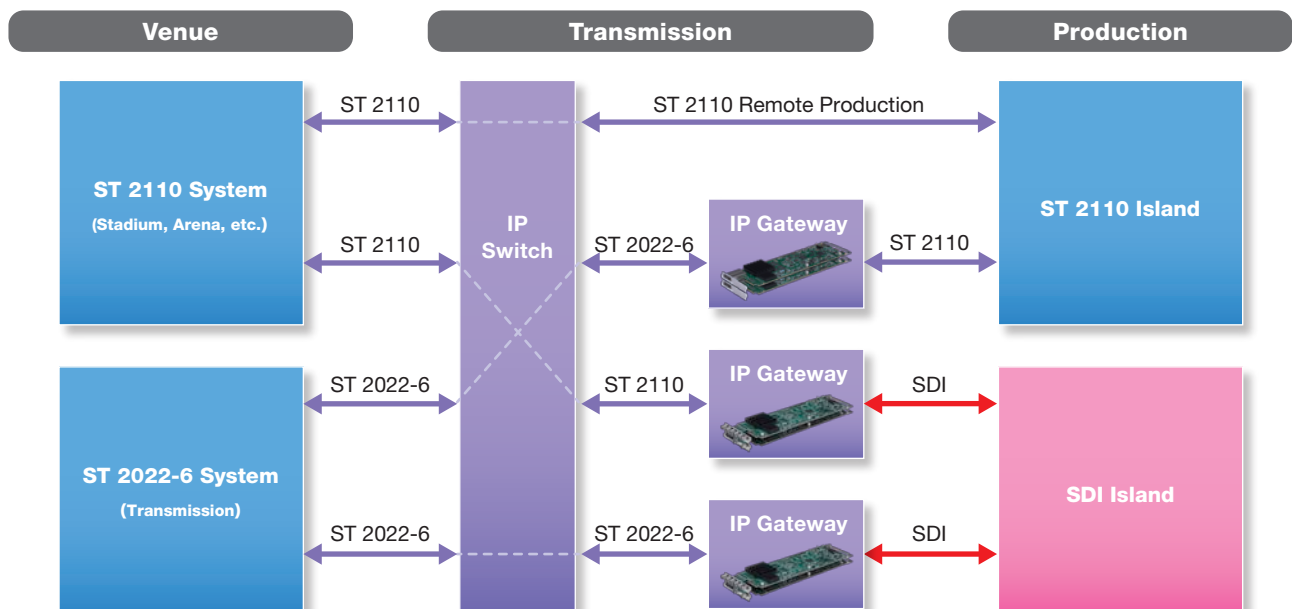
# 10 GbE IP CONVERTER (IP GATEWAY) USF-10IP SERIES



Video-over-IP module for Universal System Frame USF-212AS. USF-10IP Series converts video and audio signal between IP formats (SMPTE ST 2022-6/ST 2110) and between IP and SDI. Compatible with 4K (2SI/SQD) and multi-format input and output. Dual 10 GbE (SFP+) module can be installed supporting hitless operation.

## Baseband and IP Hybrid System

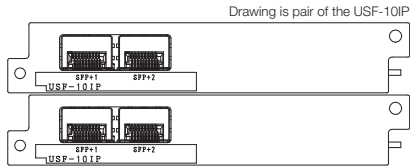
For an IP system, the SMPTE ST 2022-6 standard is mainly used in transmission. In a production system, SMPTE ST 2110 is the most commonly used standard. In the future, baseband and IP, as well as ST 2022-6 and ST 2110 may be mixed for production applications. With the USF-10IP series, IP and baseband interconversion, ST 2022-6 and ST 2110 interconversion is also provided.



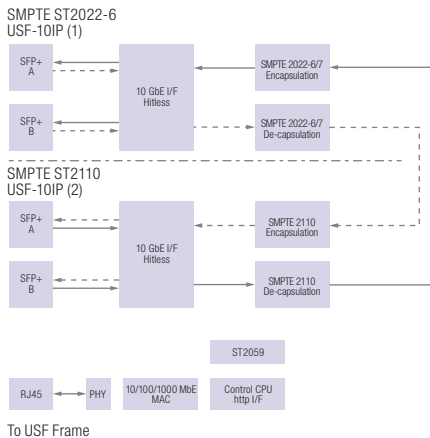
# 10 GbE IP CONVERTER (IP GATEWAY)

## Available Modules

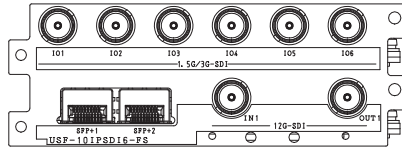
### USF-10IP



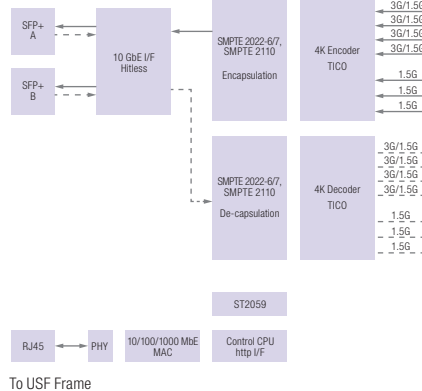
- Dual 10 GbE (SFP+) port supports hitless operation for redundancy
- Converts to other capsulation modes (Using pair of the USF-10IP modules)
- Encapsulation modes:  
SMPTTE ST2022-6/7, SMPTTE 2110



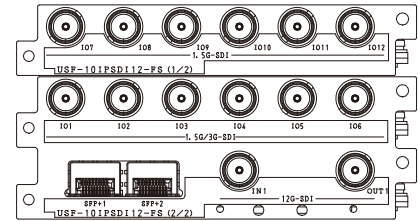
### USF-10IPSDI6-FS



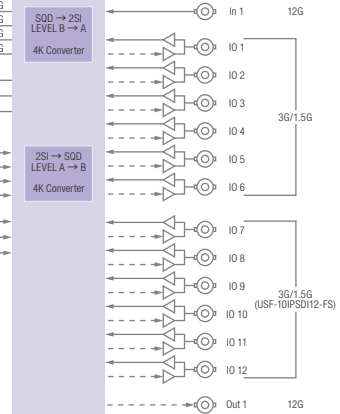
- Dual 10 GbE (SFP+) port supports hitless operation for redundancy
- 1-input/1-output 12G-SDI
- 6-input/output 3G/1.5G-SDI
- 2SI/SQD conversion, Level A/B compatible
- SMPTTE 2022-6 (uncompressed):  
Simultaneous conversion of up to 6 inputs and 6 outputs (6 streams)
- Encapsulation modes:  
SMPTTE ST2022-6/7, SMPTTE 2110
- TICO codec support (SMPTTE ST 2022-6)



### USF-10IPSDI12-FS



- Dual 10 GbE (SFP+) port supports hitless operation for redundancy
- 1-input/1-output 12G-SDI
- 12-input/output 3G/1.5G-SDI
- 2SI/SQD conversion, Level A/B compatible
- SMPTTE 2022-6 (uncompressed):  
Simultaneous conversion of up to 6 inputs and 6 outputs (12 streams)
- Encapsulation modes:  
SMPTTE ST2022-6/7, SMPTTE 2110
- TICO codec support (SMPTTE ST 2022-6)



## Specifications

	USF-10IP	USF-10IPSDI6-FS	USF-10IPSDI12-FS
Video input	SFP+ 1 channel (2 ports for redundancy)	1 channel (2 ports for redundancy)	1 channel (2 ports for redundancy)
	SDI	12G-SDI: 12 Gbps, BNC x 1 3G/1.5G-SDI: 3/1.5 Gbps, BNC x 6 (input/output switching) Signal format*1: 2SI or SQD (Level A/B*)	12G-SDI: 12 Gbps, BNC x 1 3G/1.5G-SDI: 3/1.5 Gbps, BNC x 12 (input/output switching) Signal format*1: 2SI or SQD (Level A/B*)
Video output	SFP+ 1 channel (2 ports for redundancy)	1 channel (2 ports for redundancy)	1 channel (2 ports for redundancy)
	SDI	12G-SDI: 12 Gbps, BNC x 1 3G/1.5G-SDI: 3/1.5 Gbps, BNC x 6 (input/output switching) Signal format*1: 2SI or SQD (Level A/B*)	12G-SDI: 12 Gbps, BNC x 1 3G/1.5G-SDI: 3/1.5 Gbps, BNC x 12 (input/output switching) Signal format*1: 2SI or SQD (Level A/B*)
IP format*2	SMPTTE 2022-6/7, SMPTTE 2110		
Max. number of modules mountable on USF-212AS	10 (5 pairs)*2	5	3

\*1 When using 3G-SDI \*2 Required dedicated frame. please contact to a FOR-A sales person.



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ISO 9001 and 14001 certified (Sakura R&D)

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