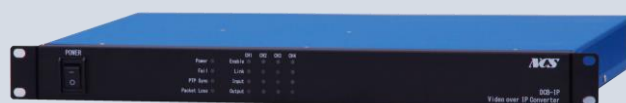


Video over IP Converter for UHD DCB-IP Series



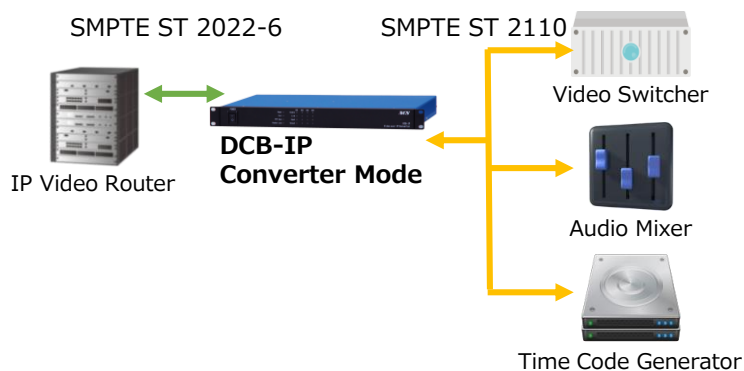
4K8K Video over IP Converter

- Conversion between SMPTE ST 2022-6 and SMPTE ST 2110
- Supports hitless switching function (SMPTE ST 2022-7)
- Supports uncompressed or compressed 4K video transmission
- Supports AMWA NMOS standards



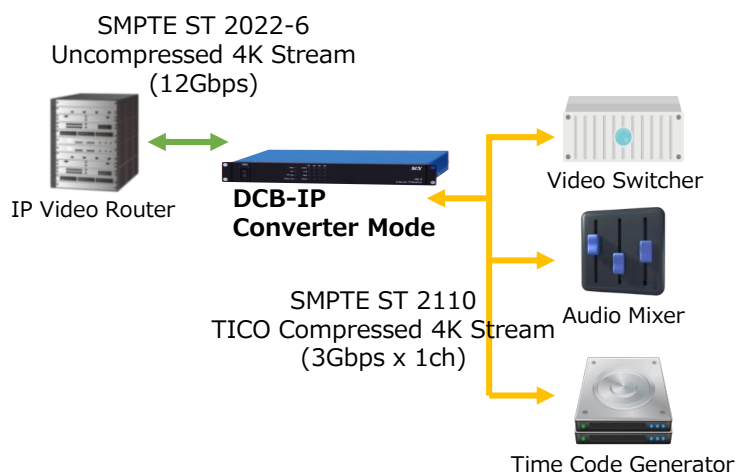
1. Video over IP converter

Provide mutual transmission format conversion between SMPTE ST 2022-6 and SMPTE ST 2110. DCB-IP seamlessly connects networks of different standards and enables a flexible system configuration. DCB-IP supports PTP and boundary clock function to realize high precision time synchronization.



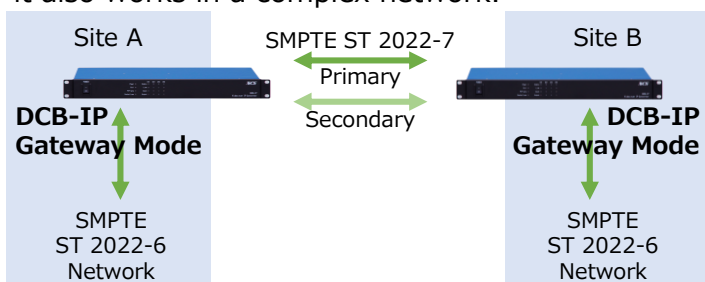
3. 4K video transmission

DCB-IP supports 4K resolution. Not only supporting uncompressed video transmission, but it also supports video transmission compressed in TICO codec. It enables 4K video transmission over 10GbE line.



2. Hitless switching function

Supports SMPTE ST 2022-7 which enables stable video transmission even when a fault occurs on the transmission line. Since DCB-IP supports Class C(High Skew : Latency difference < 150ms), it also works in a complex network.



4. Supports AMWA NMOS standards

DCB-IP supports IS-04 and IS-05 of AMWA NMOS which is the next-generation control standard. Remote operation through IP network and interoperation with other AMWA NMOS compatible products are possible.

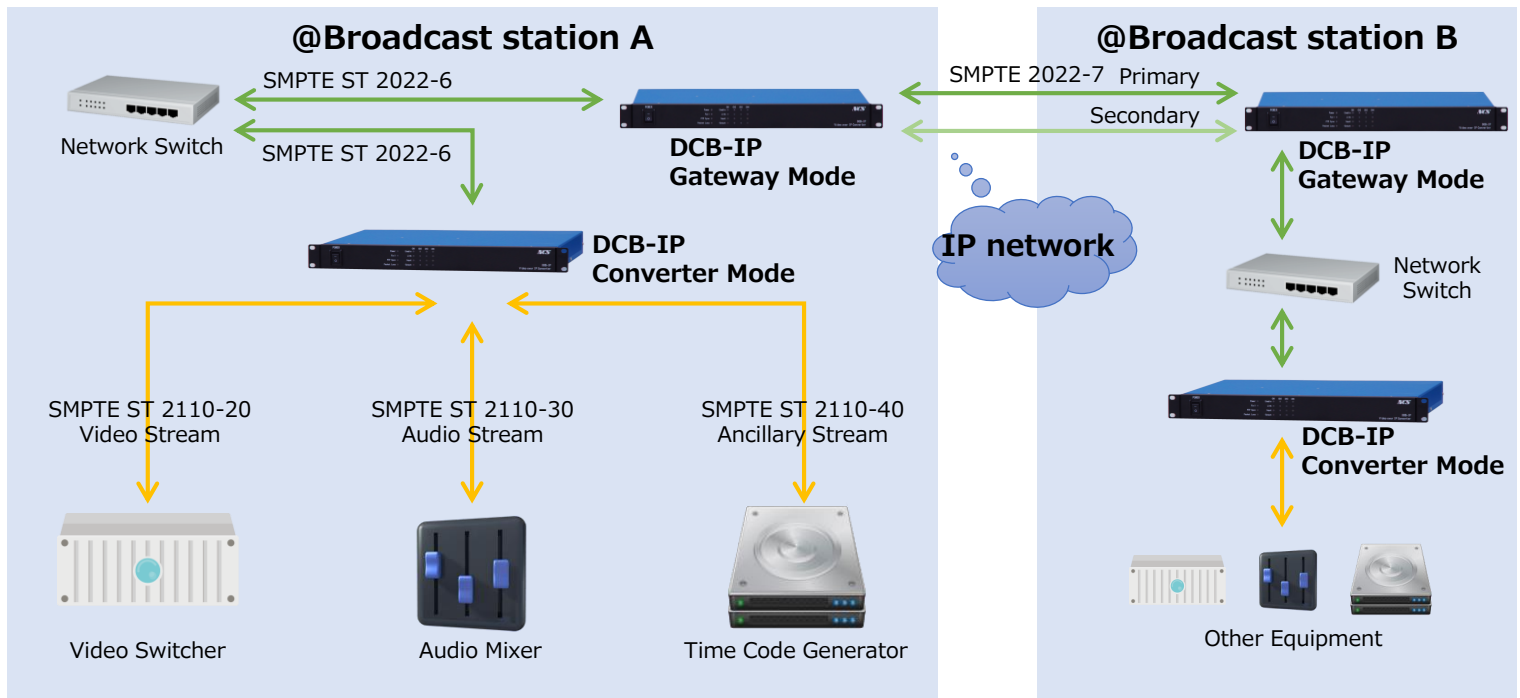
5. Test signal generating function

Generates test signals such as color bar or gray scale. It can be used for system evaluation and troubleshooting.

DCB-IP Video over IP Converter



Configuration Example



General Characteristics

Video		
Standard	SMPTE ST 2022-6/7(Class C), SMPTE ST 2110-20/30/40	
Synchronization	SMPTE ST 2059 (IEEE 1588 PTP)	
Resolution	1920 x 1080 pixels, 3840 x 2160 pixels*	
Frame rate	25Hz, 30/1.001Hz, 30Hz, 50Hz, 60/1.001Hz, 60Hz	
Scanning mode	Interlaced scan, Progressive scan	
Bit number	10bit	
Pixel structure	4:2:2 YCbCr, 4:4:4 YCbCr, 4:4:4 RGB	
Audio		
Channel	8ch	
Sample	48kHz	
Bit number	24bit	
Stream number		
Resolution and Frame rate	10GbE SFP+ x 4	40GbE QSFP+ x 2
2K30P	16	32
2K60P	8	16
4K60P(uncompressed) *1	2	4
4K60P(compressed) *2	8	16
Test signal generation function		
Video	Color Bar (Full, SMPTE, ARIB), Linear (Ramp, Step), Flat, etc.	
Audio	1kHz	

Interfaces

Video	10GbE SFP+ x 4, 40GbE QSFP+ x 2 *3
General	1GbE RJ45 x 1

General information

Size, Weight	43.5(H) x 480(W) x 350(D) mm, Less than 5.5kg
Consumed power	200W(Typ.)
Operation temperature	0~40°C
Humidity	30~80%RH (No condensation permitted)
Accessories	Operating manual x 1, CD-ROM x 1, Power cable x 1

Control

Standard	AMWA NMOS IS-04, IS-05
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*1 Sending and receiving in 2K video x 4 streams by 2 Sample Interleave method or Square Division method *2 TICO encoding/decoding is an optional function *3 40GbE is an optional function

External Dimensions

