

FUJITSU Network Real-time Video Transmission Gear IP-9610

IP-9610 is a Video Transmission Equipment adopted highly efficient video encoding technology, "H.264" to perform live transmission of high fidelity HDTV at low bit-rates.

IP-9610 achieves video compression supported 1080p and 10 bit 4:2:2 color format. Using 1U chassis, IP-9610 can compress and distribute 2-channel video.



Features

4:2:2 Color Format

Supports 10 bit 4:2:2 color format and achieves video compressing by H.264 High422 profile. IP-9610 succeeds Fujitsu's high spec chroma-scalable coded CSC4:2:2 adopted in IP-9500, which can be received with existing 4:2:0 decoder.

3G Video Input

Supports 1080p, 3G-SDI input/output, and Dual-Link SDI. These enable to provide video fidelity to the source especially for high-speed movement video with high resolution.

Ultra Low Latency

In addition to "Low Latency" mode, "Ultra Low Latency" mode as a new option of IP-9610 is enabled less than 99ms with H.264 IP transmission among Encoders/Decoders.

NIT (Carrier ID)

Video can be smoothly transmitted using NIT over Satellite Network. This feature is suitable for global video transmission among plural countries.

Multiple Programs

Synchronizes 2ch's video as MPTS, enables to output from ASI. You can apply for 3D video distribution and concurrent sending of multiple programs.

Multi-Audio

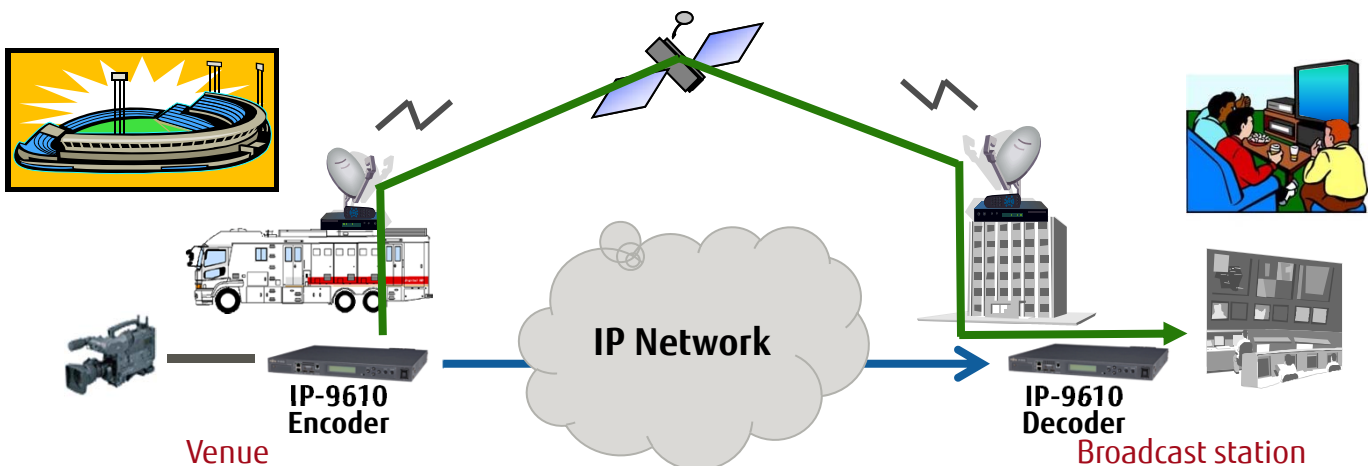
Supports various audio encoding (MPEG-1, AAC, HE-AAC). This enables audio distribution for multiple numbers of channels such as maximum 16 channels per 1 video channel.

Robust Error Correction

Assembles Fujitsu Proprietary FEC (Forward Error Correction) /ARQ (Automatic Repeat Request) proven at existing Fujitsu IP series equipment and "SMPTE2022 (Pro-MPEG) FEC" of industry-standard, this offers powerful network error correction.

Flexible Module Structure

Flexible module structure enables to choose available function customer needs.



Specifications

Items		Specification
Video	SDI Input board/Encoder ^{*2}	1 x 3G ^{*1} /HD/SD-SDI Input (SMPTE 424M/292M/259M) 1 x 3G ^{*1} /HD/SD-SDI Output (Loop-thru) ※Support Dual-Link SDI (SMPTE 372M) using 2 boards ※3G/HD/SD Auto sensing
	SDI Output board/Decoder ^{*2}	2 x 3G/HD/SD-SDI Output(SMPTE 424M/292M/259M) ※Support Dual-Link SDI (SMPTE 372M) using 2 boards
	Coding	ITU-T H.264/MPEG-4 AVC (ISO/IEC 14496-10) High422@L4.2, HP@L4, High422@L3, HP@L3, CSC422
	Chroma format	4:2:0 8bit, 4:2:2 8bit, 4:2:2 10bit
	Resolution, Frequency, Bit Rate	1080p x 1920/1440/960 (50/59.94/60Hz) ^{*1} 1080i x 1 - 100Mb/s 1920/1440/960 (50/59.94/60Hz) 1 - 100Mb/s 720p x 1280/960/640 (50/59.94/60Hz) 0.5 - 100Mb/s 480i x 720/352 (59.94Hz), 576i x 720/352 (50Hz) 0.15 - 100Mb/s
	Down Converter	Letter box, Center Cut, Squeeze
	Reference	1 x Reference Input (Tri-sync/Bi-sync) ^{*3} 1 x Reference Output (Decoder Synchronization) ^{*3}
Audio	SDI Input Board/Encoder ^{*2}	1 x SDI Embedded Input (SMPTE 299M/272M) 1 x SDI Embedded Output (Loop-thru)
	SDI Output Board/Decoder ^{*2}	2 x SDI Embedded Output (SMPTE 299M/272M)
	Coding (16ch)	MPEG-1 Layer2 64, 128, 192kbps(Mono) / 128, 256, 384kbps(Dual mono, Stereo) MPEG-2/4 AAC ^{*5} 56, 128, 192kbps(Mono) / 128, 256, 384kbps(Dual mono, Stereo) / 256, 320, 512kbps (5.1ch) MPEG-4 HE-AAC V1 ^{*5} 24, 64kbps(Mono) / 64, 96, 128kbps(Dual mono) / 64, 96kbps(Stereo) / 96, 128, 160kbps(5.1ch) Pass-thru (SMPTE-302M, AC-3/ATSC, AC-3/DVB)
	Intercom	1 x Input/ Output: G.711
Multiplexing Method	Single Unit	1 x MPEG-2 TS/MPEG-2 TTS
	Multi Unit	2 x MPEG-2 TS/MPEG-2 TTS (SPTS/MPTS) ^{*4}
Ancillary Data	Private PES (SMPTE RDD 11-2007), DID/SDID filtering, ATSC Annex F (Closed Caption) NIT (Carrier ID), SDT	
AUX Data	2 x RS-232C/RS-422 Pass-thru	
Console	1 x 10BASE-T/100BASE-TX/1000BASE-T	
LAN	Interface	2 x 10BASE-T/100BASE-TX/1000BASE-T
	Protocol	IPv4/IPv6, http, SNMP, SNTP, RTP, UDP
	Error Correction	SMPTE2022 (Pro-MPEG) FEC, Fujitsu FEC & ARQ
DVB-ASI	Interface	2 x DVB-ASI Output 1 x DVB-ASI Input ^{*3}
	Encryption	BISS mode 1/ mode E ^{*6}
	Control	VFD Key (up, down, left, right, enter, cancel, 4 x function-key), Web-GUI, SNMP
External Dimensions (W x D x H)	425 x 500 x 43 mm	
Weight	Approx. 7.0kg	
Power	AC 100 ~ 240 V	
Power Consumption	100 ~ 170 VA (Depends on the structure)	
Temperature	0 ~ 50 degrees C	
Humidity	20 ~ 90RH (No condensations)	
Compliance	UL, CE, FCC, RoHS, KC	

*1: Need "3G Option"

*2: Up to 2 boards can be installed

*3: Decoder's function

*4: Need two of "Encoder license "or" Decoder License"

*5: Need "AAC Encode Option" at Encoder

*6: Need "BISS scrambler Option" at Encoder

※3G input supports "Level-A/B" and 3G output supports "Level-A"

Front Panel



Rear Panel



● The specifications are subject to change without notice.

Contact

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