

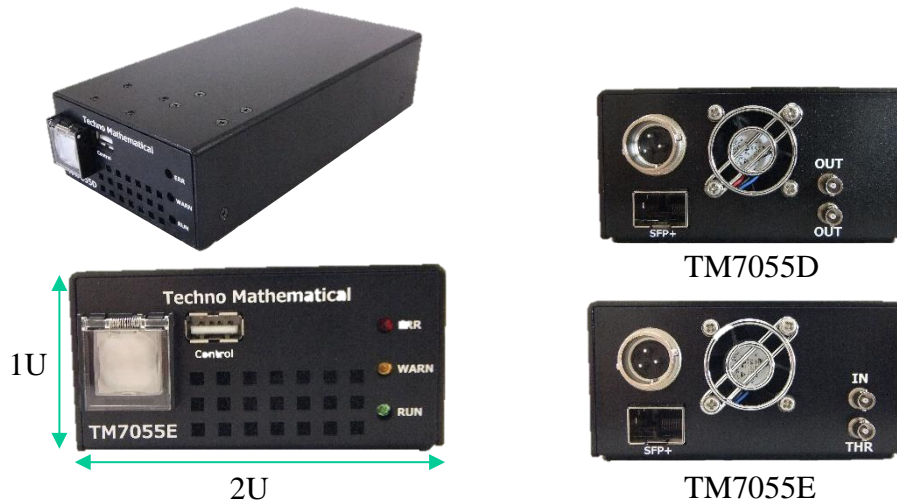
TM7055E/D JPEG XS

Ultra-low latency IP transmission system

Powered by original computing algorithm "DMNA" based on mathematical methods

1 Summary

TM7055E/D is a compact 1U-height encoder/decoder equipment developed for transmitting 4K/60fps images over IP. JPEG XS is used for video compression, to achieve high image quality and ultra-low latency. Ideal for real-time transmission in broadcasting, medical applications, etc. It also operates at DC12V. It is mountable in 19-inch rack thanks to U-height. its compact size also makes it suitable for mobile applications.



2 Application field



- Broadcast
- Medical care
- Industrial camera
- Remote control
- VR/AR
- Cloud

CONTACT

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3 Specifications

TM7055D can only decode the stream encoded by TM7055E.

	Transmitter	Receiver
Product name	TM7055E	TM7055D
Interface	HD-BNC * ₁ (Input)	HD-BNC * ₁ x 2 (Outputs)
	HD-BNC * ₁ (Through out)	–
	SFP+ 10GBase-R/10GBase-T - Stream network	
	USB2.0 Type-A for 1000Base-T adaptor - Control network	
	Status LEDs	
Transmission delay	1msec (Excluding network delay)	
Image Quality	Visually Lossless	
Video resolution & format	4096x2160p60,59.94 (YUV422/10bit 12G-SDI)	
	3840x2160p60,59.94 (YUV422/10bit 12G-SDI)	
	1920x1080p60,59.94 (YUV422/10bit 3G-SDI Level-A)	
	1920x1080i60,59.94 (YUV422/10bit HD-SDI)	
	1280x720p60 (YUV422/10bit HD-SDI)	
	720x480i59.94 (YUV422/10bit SD-SDI)	
Audio sampling & format	L-PCM 2ch, 48kHz sampling (20bit or 24bit)	
Video Compression	Compression range: 1/4 - 1/30	
Maintenance & Management	Updating firmware by web application	
	Monitoring packet loss by web application	–
	Transmission of A/V test pattern	Output A/V test pattern
	Setting date& time, Logging, Status of the device, and etc.	
Network protocol	Stream: UDP, Control: TCP * ₂	
Dimensions	87(W)×43(H)×180(D)mm/3.39(W)×1.65(H)×6.89(D)inches W:2U, H:1U	
Weight	0.7kg/1.54lbs. (Excluding AC adaptor)	
Power	DC12V (AC100 - 240V with included AC adaptor)	
Power consumption	12VDC 30W	
Operating Temperature	0 - 40°C/32 - 104°F	
Relative Humidity	30 - 80% (non-condensing)	
Accessories	AC adaptor, power cable	

*1: HD-BNC is a trademark of Amphenol Corporation.

*2: SMPTE ST2110, VSF TR-07/08, and SMPTE ST2022-7 are planned to support.

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