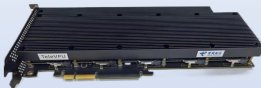


TeleVPU: A High-Performance RISC-V Video Transcoding Card

TeleVPU is the first RISC-V video transcoding card developed by China Telecom Research Institute, which can provide high-density and low-cost video transcoding and compression capabilities for billions of channels of videos.



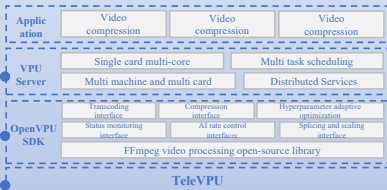
- A Multi-SoC RISC-V architecture
- Integration of transcoding and AI analysis
- Up to over 90% compression ratio

KEY PARAMETERS		
Transcoding and compression performance	Resolution	Channels
	4K	10
	1080P	40
	720P	80
Codec	H.265, H.264	
Image Acceleration	Any resolution scaling, image stitching, sharpening, blurring, noise reduction, watermark/image/text overlay	
AI capability	20Tops@INT8	
Power	60W	

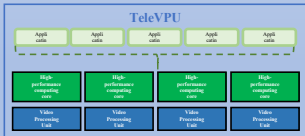
Self-developed VPU Server, achieving multi-card collaboration and unified management and control

Self-developed OpenVPU SDK, providing efficient management and interface support

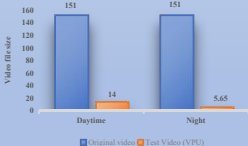
TeleVPU as the computing power foundation, empowering efficient video processing



Software-Defined VPU (SD-VPU):
autonomously control and supports software-defined management and computing



Large-scale Test: achieve at least 90% video compression



Application Scenarios



Security Monitoring



Video Conference



Video Network



Live Streaming