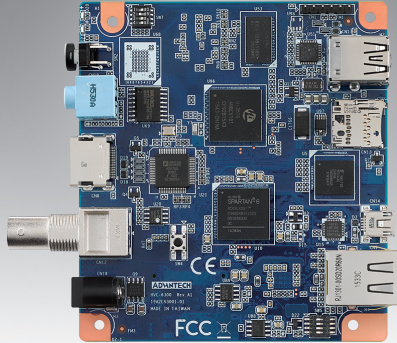


VEGA-2000

1-Ch HEVC/H.264 Video Capture & Encode Module

Preliminary



Features

- 1-Ch HEVC/H.264 1080p60 encode
- 1-Ch SDI-3G & HDMI video inputs
- One audio phone jack input
- One USB2.0 Type-A connector
- One gigabit Ethernet RJ-45 connector
- One micro SD card connector
- One miniUSB console port
- Onboard 1GB DDR3 memory
- Small form-factor (90 x 100mm²)
- Low power consumption (<5W)

Introduction

VEGA-2000 (previously known as HVC-6300), is a small form-factor module designed for encoding live video using either advanced HEVC (High Efficiency Video Coding) Main Profile or H.264 BP/MP/HP video compression up to 1080p resolution at 60 frames per second, with CBR (Constant Bit Rate) & VBR (Variable Bit Rate) support from 64kbps ~ 32Mbps. The single SDI-3G or HDMI video inputs provide video capture capability in convenient formats for professional video feeds while the onboard USB 2.0 and gigabit Ethernet ports offer great flexibility in transporting the compressed video stream through wireless (such as WiFi, LTE, etc.) and wireline interconnections to remote and cloud side for archiving or further processing. The SD memory card interface can also be used for local storage. The module also features audio encoding from either embedded SDI/HDMI audio channels or a separate 3.5mm audio jack socket.

The module is supplied with a bundled software package that demonstrates a streamlined workflow from video acquisition, encoding, streaming to archiving in a hassle-free approach for simplifying system adoption and integration effort. The well-defined web-based software APIs open the possibilities for customization based on the final usage cases.

With a small physical dimension and low power dissipation characteristics, VEGA-2000 can be easily applied to portable and mobile broadcasting, medical imaging, UAV (Unmanned Aerial Vehicle) applications, etc. where real-time and high-quality video content needs to be captured and transported in an efficient way using the latest HEVC compression standard.

Specification

Video Input	Channels	1 (up to 1080p60, 8bit,YUV)	
	Video Formats	HD, SD	
	Frame Rates	HDMI 1.4 Interface	1920x1080: 60p / 59.94p / 50p / 30p / 29.97p / 25p / 24p 1280x720: 60p / 59.94p / 50p / 30p / 29.97p / 25p / 24p 720x576: 50p 720x480: 60p / 59.94p
		BNC (3G-SDI) Interface	1920x1080: 60p / 59.94p / 50p / 30p / 29.97p / 25p / 24p 1280x720: 60p / 59.94p / 50p / 30p / 29.97p / 25p / 24p 720x576: 50p 720x480: 60p / 59.94p
		Chroma Sampling Format	4:2:2 / 4:2:0
Interfaces	HDMI 1.4 3G-SDI BNC (SMPTE424M Level A)		
Video Compression	Compression	H.265/H.264	
	HEVC Profile	Main	
	HEVC Tier	Main	
	HEVC Level	1.0 / 2.0 / 2.1 / 3.0 / 3.1 / 4.0 / 4.1	
	Bitrate 1080P Format	64Kbps - 32Mbps	
	Bit Depth / Chroma Subsampling	8 bit / 4:2:0	
	Bit Rate Control	CBR/VBR	
Output Format	RTSP/MP4		
Audio	Channels	Up to 2	
	Format	AAC encoding	
	Sampling Rates	48Khz/16bit	
	Connectors	HDMI 1.4 / SDI-3G / Line-In	
Web	PC/Mobile Phone	IE/Chrome/FireFox	

Ordering Information

Part Number	Description
VEGA2000ME-ES	FHD HEVC/H.264 Video Capture & Encode Module