HW16DDH

Introduction

HIVIEW offers a video network encoding module for HDMI interface input.

The module suitable for remote desktop control, remote guidance, remote instrument operation and monitoring, live broadcast (press conference / travel / wedding / teaching / campus evening / business / outdoor), aerial photography, Internet TV, distance learning, hotel UDP multicast, IPTV live broadcast HDMI devices such as streaming media push and video conferencing require encoding, storage, and remote monitoring.

Features

- The core chip uses HiSilicon high-performance multimedia processor system-on-a-chip (SOC), which integrates A7 and high-speed video coprocessor, clocked at 600MHz.
- Excellent image quality and low power consumption.
- Adopt standard H.264 / H265 compression algorithm to achieve high-definition image transmission on narrowband.
- Image resolution up to 1920 (H) * 1200 (V)@60fps.
- Supports the ONVIF protocol.
- Support WIFI / support IP, AP hotspot mode (reserved).
- Support audio input and output, support two-way voice intercom.
- Support local real-time recording.

Specification

Audio and video ecoding	Video compression format	H.264/H265, High/Main/Baeline Profile encoding; MJPEG encoding
	AUDIO compression format	G.711/AAC
	Image resolution	Main stream: 800*600; 1024*768; 1280*720; 1280*800; 1280*960; 1280*1024; 1360*768; 1600*1200; 1920*1080; 1920*1200, @60fps Secondary stream: 640*480@60 fps
	Video compression ratio	32Kbps-16Mbps continuously adjustable, support CBR/VBR
	OSD menu	Support channel name, date and time stacking
	Image flip	Support horizontal and vertical flip
	Image setting	Brightness, contrast, chroma, sharpness, etc.
Network features	Network protocol	TCP/IP、UDP、RTP/RTCP、RTSP、HTTP、DNS、DDNS、DHCP、FTP、NTP、PPPOE、UPNP、RTMP
	Intelligent alarm	Support motion detection alarm, video loss alarm, network failure alarm, linkage alarm, linkage video, linkage capture
	FTP upload	Support
	WIFI transmission protocol	802.11b/g/n, support WEP, WPA, WPA2 encryption protocol
Storage and protocol	data storage	Video, image file
	Storage mechanism	Manual, automatic (cycle, timing, alarm switch, motion detection)
	ONVIF protocol	Standard ONVIF2.2 protocol
	Local storage	Maximum support 128G
Interface	Network Interface	10/100Mbps Adaptive Ethernet
	Video input	Standard HDMI interface
	Analog video output	CVBS
	Audio input interface	Linear input
	Audio output interface	Linear output, 1Vpp
	TF card interface	Support
	USB interface	USB2.0
	Communication serial port	TTL serial port
General	Operating temperature	-10---60°C
	Working humidity	90% RH or less
	Operating Voltage	DC5V--12V (+/-10%)
	Power consumption	Around 2.5W
	Dimension	Motherboard: 42mm (length) * 42mm (width) * 10mm (height) HDMI interface board: 42mm (length) * 42mm (width) * 9mm (height)

Interface

J4 (Ethernet interface)			
No.	Name	No.	Name
1	TX+	4	RX-
2	TX-	5	Network connection LED
3	RX+	6	network status LED

J7(USB interface)		J6		J8:		J2	
No.	Name	NO	Name	NO	Name	No.	Name
1	GND	1	DC3.3v	1	DC12V(4.5V~12V)	1	Video-out
2	D+	2	GND	2	GND	2	GND
3	D-	3	Alarm-input			3	RESET
4	3.3V	4	Alarm-output			4	AUDIO-OUT
		5	Uart1-RX			5	GND
		6	Uart!-TX			6	AUDIO-IN
		7	SPI-CLOCK /I2C-CLOCK				
		8	SPI-DATA I2C-DATA				
		9	SPI INPUT				
		10	SPI-CS				