

M70-4U

Multi-service Video Management Platform



Features:

- 19" standard 4U ATCA industry box
- Easy and flexible configuration with pluggable card module design
- 80ch@1080P or 320ch@D1 signal encoding (full configured)
- 160ch@1080P 640ch@D1 signal decoding (full configured)
- Support analog/digital video signals input and matrix output
- Support SD/HD video signal matrix switch and output
- Support non-compressed digital signal encoding output
- 2 RJ-45 gigabit network ports for matrix control, preview and online central storage.
- Support TCP/IP/RTP/RTSP/RTCP/TCP/UDP/DHCP/PPPoE and etc. network protocols
- Remote cast analog/digital video onto the video-wall
- Remote reboot/upgrade/default setting and etc operations



Technical Specification

Model

Model	M70-4U
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System Parameter

Main Processor	Quad-core embedded microprocessor
Operating System	Embedded LINUX
Bus	PCI-E
Slot	12(2 Main Control Board Slot, 10 Video and Audio Function Board)
Mainframe	Power module (redundant power optional), main control board, control board, PCI-E bus rear panel, smart temperature controlled fan
Video Input Card	Max. 10
Video Output Card	Max. 10

Video Input

VEC0404HD-M70 (DVI-I)	Interface	4CH DVI-I (HDMI & VGA with convertor)
	Encoding Format	H.264/MPEG4
	Encoding Capability	4CH@1080P, support resolution: 1080P/720P/UXGA/SXGA+/SXGA/XGA/SVGA/VGA

VEC0404HH-M70 (HDMI)	Interface	4CH HDMI
	Encoding Format	H.264/MPEG4
	Encoding Capability	4CH@1080P, support resolution: 1080P/720P/UXGA/SXGA+/SXGA/XGA/SVGA/VGA
VEC3204FB-M70 (CVBS)	Interface	32CH BNC (1.0Vp-p, 75Ω)
	Signal Format	NTSC/PAL self-adaption
	Encoding Format	H.264/MPEG4
	Encoding Capability	32CH@D1
VEC0804HC-M70 (HDCVI)	Data Ports	2 RS485 ports
	Interface	8CH BNC (1.0Vp-p, 75Ω)
	Signal Format	HDCVI (audio/video/control)
	Encoding Format	H.264/MPEG4
VEC0804HC-M70 (HDCVI)	Encoding Capability	8CH@1080P

VEC0804HS-M70 (HD-SDI)	Interface	8CH BNC (1.0Vp-p, 75Ω)
	Signal Format	HD-SDI, 1.485Gbps
	Encoding Format	H.264/MPEG4
	Encoding Capability	8CH@1080P
	Data Ports	2 RS485 ports

Video Output

VDC0404D-M70(DVI)	Decoding Capability	2CH@4K(15fps)/4ch@5MP(25fps)/4CH@3MP(30fps)/16CH@1080P/32CH@720P/64CH@D1
	Interface	4CH DVI-D(HDMI with convertor)
	Resolution	3840×2160@30fps, 1920×1080@60fps, 1280×1024@60fps, 1280×720@60fps, 1024×768@60fps
	Split	1/4/6/8/9/16, free split
VDC0404H-M70(HDMI)	Decoding Capability	2CH@4K(15fps)/4ch@5MP(25fps)/4CH@3MP(30fps)/16CH@1080P/32CH@720P/64CH@D1
	Interface	4CH HDMI
	Resolution	3840×2160@30fps, 1920×1080@60fps, 1280×1024@60fps, 1280×720@60fps, 1024×768@60fps
	Split	1/4/6/8/9/16, free split
VDC0404V-M70 (VGA)	Decoding Capability	2CH@4K(15fps)/4ch@5MP(25fps)/4CH@3MP(30fps)/16CH@1080P/32CH@720P/64CH@D1
	Interface	4ch VGA
	Resolution	1920×1080@60fps, 1280×1024@60fps, 1280×720@60fps, 1024×768@60fps
	Split	1/4/6/8/9/16, free split
VDC0404B-M70 (BNC)	Decoding Capability	16CH@1080P/32CH@720P/64CH@D1
	Interface	4ch BNC
	Resolution	D1/2CIF/CIF/QCIF
	Split	1/4/6/8/9/16, free split
DH-VDC0404S-M70(HD-SDI)	Decoding Capability	2CH@4K(15fps)/4CH@5MP@(25fps)/4CH@3MP(30fps)/16CH@1080P/32CH@720P/64CH@D1
	Interface	4ch HD-SDI
	Resolution	D1/2CIF/CIF/QCIF
	Split	1/4/6/8/9/16, free split

DH-VDC0414D-M70(DVI)	Decoding Capability	2CH@4K(15fps)/4ch@5MP(25fps)/4CH@3MP(30fps)/16CH@1080P/32CH@720P/64CH@D1
	Interface	4ch DVI-D(HDMI with convertor)
	Resolution	3840×2160@30fps, 1920×1080@60fps, 1280×1024@60fps, 1280×720@60fps, 1024×768@60fps
	Split	1/4/6/8/9/16, free split
	Function	Double frame rate for more smooth video

Video-Wall

Decoding Card Video-Wall Splicing	Splicing	Support video-wall splicing (max 40 LCD display units)
	Video-Wall	Support Splicing Zoom/Merge/Roam/Overlay
	Input Source	HD/SD, Digital/Analog (support mixed input)
	Output Port	DVI-D/HDMI/VGA/HD-SDI/BNC
	Control Mode	PC client-end/Local Operate Menu/Network Keyboard/IPAD

Network

Interface	2 RJ-45 ports (10/100/1000M)
Serial Port	4 RS232 ports (1 DB9, 3 RJ45), for console and control 1 RS485 port
USB	3 USB2.0, 1 USB3.0

Environmental

Power Supply	DC48V, 47-63Hz(optional), AC 100~120V / 200~240V
Power Consumption	≤600W
Working Environment	-10°C ~+50°C / 10~90%RH / 86~106kpa
Dimension	4U, 482.6mm×496mm×177.8mm(W×D×H)
Weight	≤25Kg (full configured)

Ordering Information

Type	Part Number	Description
Video Management Platform	DH-M70-4U	High cost performance, HD Decoding capacity
	M70-4U	High cost performance, HD Decoding capacity

Dimensions (mm/inch)

