



DigiBird Technology Co., Ltd.

# VWC2-HPro Video Wall Controller

Card Manual



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## Function Card

### Hpro Series Control Card

Order Code: DB-VWC2-HP-CC

#### Introduction



The HPro series control card is the main part of VWC2 HPro to communicate with the host PC for configuration and operation. HPro series supports hot redundancy on 4U / 6U / 8U / 14U / 26U chassis. It has 2 control cards both cards connect to the LAN, the control card in the upper slot runs as primary by default. Swapping out the control card would not affect the current displaying on video wall.

#### Interface

- ◆ NET: RJ45 interface configuration or operation for connecting PC via CAT cable.
- ◆ RS232IN: Serial port for serial communication.
- ◆ RS232OUT: Loop out for the serial port, for cascading other devices.
- ◆ USB: Reserved for future.
- ◆ SYNC: Synchronization port for video signal synchronizing.

#### Indicators

1. NET port indicator: If the Green light at NET port is blinking it indicates the port is connected successfully, otherwise failure. While, the Yellow light blink indicates data switching is successful.
2. Status indicator:
  - 1) M/S: Main & standby indicator light, If the light at primary card is on it indicates primary card is operating/activated, if light at primary card is off that means secondary card is operating/activated.
  - 2) ALM: Alarm indicator light on indicates operation of failure.
  - 3) RDY: Program status indicator, if light is on it indicates that the program has been loaded and if light is off it indicates the program is loading or there is some fault.
  - 4) RUN: Activation indicator, if light is on it indicates that the card is activated, light off indicates failure or abnormal operation.

#### Parameters

Type	Description	
<b>Physical Interface</b>	NET	
<b>Specification</b>	RS232	Loop in Baud Rate:9600; Loop out Baud Rate: 9600,38400,115200
		No Parity
		8-bit data bits
		1 stop bit
	Power	7.2W
Temperature	0-50℃ (Running)	
	-55 ~ 70℃ (Store)	
Humidity	10%~80%(Running)	
	10%~90%(Store)	
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series Confidence Monitoring Card (CMC)

Order Code: DB-VWC2-HP-FC-CB

### Introduction



Contents on the video wall can remotely be monitored on a single monitor by CMC, which is convenient for operator to monitor and operate.

### Feature

- Support up to monitor 80x output signals per card.
- Support 4 groups video wall monitoring per card at a time.
- Supports original aspect ratio and full screen mode. Frame and background color can be set by user.
- Output resolution supports up to 1920x1200@60Hz
- DVI-I interface, VGA signal can be output by DVI-VGA adapter.

### Parameters

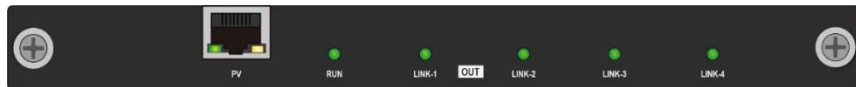
Type	Description	
<b>Physical Interface</b>	24+5 pin DVI-I interfex4(Output VGA signal via adapter)	
<b>Specification</b>	Output	Support to monitor 80x output signals per card 4x group video wall monitoring per card at a time.
	Mode	Original aspect ratio mode, full screen mode
	Output resolution	1920x1200@60Hz
	Power	40W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
	<b>Appearance</b>	Card Type
N.W.		0.3Kg
Dimension(cm)		20.3(L)x22.4(W)x2(H)



## HPro Series Network Preview Card (NPC)

Order Code: DB-VWC2-HP-OC-NPC

### Introduction



The input signal can be compressed and encoded by the NPC. Then it is transmitted to the controller software through the network and previewed in real time on the software, which help user to detect and operate the input source precisely.

### Feature

- Each card support 64 channel signal preview.
- Support multiple NPC for one chassis.
- Support to configure on site, plug and play.
- Support firmware upgrade online.

### Parameters

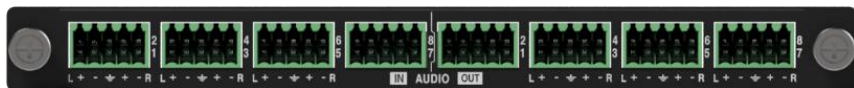
Type	Description	
<b>Physical Interface</b>	RJ45 port	
<b>Specification</b>	NET output	Support up to 64 channel signal preview per card
	Frame Rate	10 frame/s
	Power	26W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)
<b>Resolution</b>	Source List Preview	480x270
	Display Preview	120x67.5



## HPro Series 8 Channel Audio Card

Order Code: DB-VWC2-HP-IO-AUDIO8

### Introduction



HPro series 8-channel AUDIO input card can input and output 8-channel audio signals at the same time, supports single input switch to single or multiple output channels, and can switch between audio channels in real time dynamically.

### Feature

- Supports 8 channel audios input and 8 channel audios output per card
- Support single input switch to single or multiple output channels
- Support to save and recall scenes
- Support to preview current switching status
- Support to rename input and output channels
- Support card hot-swap and configuration recovery after restart
- Support online upgrade

### Application

Environment	Description
Software	Suitable for Darwin control system V2.2.4.0 or above
Hardware	Suitable for HPRO series 4U/6U/8U/14U/26U chassis;
Installation	The card can be installed in any input slot of the chassis.

### Parameters

Type	Description	
<b>Input / output interface</b>	5x balanced Phoenix port	
<b>Specification</b>	Max. input level	+19.5dBu
	Gain error	±0.1dBu @20 Hz~20 kHz
	Max. output level	+19.5dBu
	Impedance	Input: >10kΩ Output: 100Ω
	Signal type	Stereo, balanced or non-balanced connection
	Input / output quantity	8
	Power	12W
	Temperature	0-50°C (Running) , -55 ~ 70°C (Store)
<b>Appearance</b>	Humidity	10%~80% (Running) 10%~90% (Store)
	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



# Input Card

## HPro Series 4 Channel DVI Input Card

Order Code: DB-VWC2-HP-IC-DVI4

### Introduction



HPro series 4 channel DVI input card support resolution up to 1920x1200@60Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support up to 1920x1200@60Hz.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support 4 channels 3.5mm audio input with special cable

### Parameters

Type	Description	
<b>Physical Interface</b>	24+5 pin DVI-I portx4(DVI-D signal only)	
<b>Specification</b>	Input Signal	DVI 1.0
	Signal Level	V <sub>diff p-p</sub> :150mV-1200mV
	Impedance	Z <sub>diff</sub> : 100Ω
	Max. Resolution	1920x1200@60Hz
	Frame Rate	Max. 1920x1200@60Hz
	Transmission Rate	4.95Gbps(Max)
	Input Channel	4
	Power	11.3W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 2 Channel Dual-link DVI Input Card

Order Code: DB-VWC2-HP-IC-DDVI2

### Introduction



Support resolution up to 3840x2160@30Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support DVI Dual-link signal input.
- Support up to 3840X2160@30Hz.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.

### Parameters

Type	Description		
<b>Physical Interface</b>	24+5 pin DVI-I port (DVI-D signal only)		
<b>Specification</b>	Input Signal	DVI1.0 Standard	
	Signal Level	V <sub>diff p-p</sub> :150mV-1200mV	
	Impedance	Z <sub>diff</sub> : 100Ω	
	Resolution	3840*2160	
	Frame Rate	Max. 3840x2160@30Hz	
	Max. Transmission Rate	9.9Gbps	
	Input Channel	2	
	Power	11.3W	
	Temperature	0-50°C(Running)	
		-55 ~ 70°C(Store)	
Humidity	10%~80%(Running)		
	10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4(W)x2(H)	





## HPro Series 4 Channel HDMI Input Card

Order Code: DB-VWC2-HP-IC-HDMI4

### Introduction



HPro series 4 channel HDMI input card support resolution up to 1920x 1080@60Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support HDMI 1.3 protocol, compatible with DVI 1.0 protocol also support HDCP1.4 protocol.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support interlaced signal input.
- Support embedded audio input

### Parameters

Type	Description		
<b>Physical Interface</b>	HDMI Type A portx4		
<b>Specification</b>	Physical Interface	HDMI 1.3/DVI 1.0	
	Signal Level	Vdiff <sub>P-P</sub> :150mV-1200mV	
	Impedance	100Ω	
	Resolution	1920*1200	
	Frame Rate	Max. 1920*1200P@60Hz	
	Max. Transmission Rate	6.69Gbps	
	Input Channel	4	
	Power	12.3W	
	Temperature	0-50°C(Running)	
		-55 ~ 70°C(Store)	
Humidity	10%~80%(Running)		
	10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension (cm)	20.3(L)x22.4(W)x2(H)	



## HPro Series 2 Channel 4K HDMI Input Card

Order Code: DB-VWC2-HP-IC-4KHDMI2

### Introduction



Support resolution up to 3840x2160@30Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support HDMI 1.4 protocol, compatible with DVI 1.0 protocol, also support 4K@30Hz signal.
- Support HDCP validation.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support embedded audio input

### Parameters

Type	Description		
<b>Physical Interface</b>	HDMI Type A port x2		
<b>Specification</b>	Input Signal	HDMI 1.4/DVI 1.0	
	Signal Level	T.M.D.S. 2.9V~3.3V	
	Impedance	Z <sub>diff</sub> : 100Ω	
	Max. Resolution	3840*2160	
	Frame Rate	Max. 30 frames at 4K resolution	
	Max. Transmission Rate	9.0Gbps	
	Input Channel	2	
	Power	11.3W	
	Temperature	0-50°C(Running)	
		-55 ~ 70°C(Store)	
Humidity	10%~80%(Running)		
	10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4(W)x2(H)	



## HPro Series 1 Channel 4K60 HDMI Input Card

Order Code: DB-VWC2-HP-IC-4K60HDMI1

### Introduction



Support resolution up to 3840x2160@60Hz, support HDMI 2.0 protocol automatically adapting various resolutions and optimization for output.

### Feature

- Support HDMI 1.4/ HDMI 2.0 protocol, also support HDCP 1.4 /HDCP 2.2 protocol, also support 4K@60Hz signal.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support embedded audio input

### Parameters

Type	Description		
<b>Physical Interface</b>	HDMI Type A port x2		
<b>Specification</b>	Input Signal	HDMI 1.4/HDMI 2.0	
	Signal Level	VdiffP-P: 150mV-1200mV	
	Impedance	Z <sub>diff</sub> : 100Ω	
	Max. Resolution	3840*2160	
	Frame Rate	Max. 60 frames at 4K resolution	
	Max. Transmission Rate	18.0Gbps	
	Input Channel	1	
	Power	20W	
	Temperature	0-50°C(Running)	
		-55 ~ 70°C(Store)	
Humidity	10%~80%(Running)		
	10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4(W)x2(H)	



## HPro Series 4 Channels DP Input Card

Order Code: DB-VWC2-HP-IC-DP4

### Introduction



HPro series 4 channel DP input card support resolution up to 1920x1200@60Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support DP 1.0 protocol, maximum support 1920x1200@60Hz signal.
- Support HDCP1.4 validation.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support embedded audio input

### Parameters

Type	Description	
<b>Physical Interface</b>	Standard DP port x4	
<b>Specification</b>	Input Signal	DP 1.0(maximum data rate 1.62Gbps)
	Signal Level	Vdiff <sub>P-P</sub> :130mV~1300mV
	Impedance	Z <sub>diff</sub> : 100Ω
	Resolution	1920x1200@60Hz
	Frame Rate	Max. 1920x1200@60Hz
	Max. Transmission Rate	6.48Gbps
	Input Channel	4
	Power	13.3W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running), 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 2 Channel 4K DP Input Card

Order Code: DB-VWC2-HP-IC-4KDP2

### Introduction



HPro series 2 channel 4K-DP input card support resolution up to 3840x2160@30Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support DP 1.1 protocol, up to 4K@30Hz resolution.
- Backward compatible.
- Support HDCP1.4 validation.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- 2 channels per card.
- Support station logo.
- Show blue screen when no signal input.
- Support embedded audio input

### Parameters

Type	Description	
<b>Physical Interface</b>	DP port x 2	
<b>Specification</b>	Input Signal	DP 1.1(maximum data rate 2.7Gbps)
	Signal Level	Vdiff <sub>p-p</sub> :130mV~1300mV
	Impedance	Z <sub>diff</sub> : 100Ω
	Max. Resolution	3840x2160@30Hz
	Frame Rate	Max. 30 frames at 4K resolution
	Max. Transmission Rate	10.8Gbps
	Input Channel	2
	Power	12.3W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 4 Channel SDI Input Card

Order Code: DB-VWC2-HP-IC-SDI4

### Introduction



HPro series 4 channel SDI input card support resolution up to 1920x 1080@60Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support 3G-SDI, HD-SDI, SD-SDI input format.
- Support loop out function.
- Support up to 1920x1080P @ 60Hz.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.

### Parameter

Type	Description	
<b>Physical Interface</b>	BNC port x8	
<b>Specification</b>	Input Signal	SD/HD/3G SDI
	Signal Level	Input SDI:800mVp-p,Output SDI:800mVp-p
	Impedance	75Ω
	Transmission Rate	2.97Gbps (Max.)
	Input Channel	4
	Power	13W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)
<b>Input Resolution</b>	720 x 480i@60Hz	1920 x 1080p@24 Hz
	720 x 576 i@50Hz	1920 x 1080p@25Hz
	1280 x 720p@50 Hz	1920 x 1080p@30Hz
	1280 x 720p@60 Hz	1920 x 1080p@50Hz
	1920 x 1080i@50 Hz	1920 x 1080p@60Hz
	1920 x 1080i@60Hz	



## HPro Series 4 Channel VGA Input Card

Order Code: DB-VWC2-HP-IC-VGA4

### Introduction



HPro series 4 channel VGA input card support resolution up to 1920x 1200@60Hz, automatically adapting various resolutions and optimization for output.

### Feature

- Support up to 1920x1200P @ 60Hz.
- Support for automatic image adjustment.
- Support RGB adjustment and brightness, contrast adjustment.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support 4 channels 3.5mm audio input.

### Parameters

Type	Description		
<b>Physical Interface</b>	15 pin D-sub portx4		
<b>Input Signal</b>	RGBHV /CVBS/YPbPr signal		
<b>Specification</b>	Signal Level	RGBHV	0.7Vp-p
		CVBS	1.0 Vp-p
		YPb/Pr	1.0 Vp-p, 0.7 Vp-p
	Impedance	RGBHV	75Ω
		CVBS	75Ω
		Y Pb/Pr	75Ω
	Input Channel	4	
	Power	15W	
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)	
Humidity	10%~80%(Running) 10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4(W)x2(H)	



## Resolution

Type	Description		
CVBS	PAL 720X576i 50Hz	PAL-M 720X576i 50Hz	
	NTSC 720X480i 60Hz	PAL-N 720X576i 50Hz	
	SECAM 720X576i 50Hz	PAL-60 720X576i 60Hz	
	NTSC-443 720X480i 60Hz		
YPbPr	480i /576i /480P /576P /720P25 /720P30 /720P50 /720P60 /1080i50 1080i60 /1080P50 /1080P60 /1080P24 /1080P25 /1080P30		
VGA	1024 x 768@60Hz	720 x 400@85Hz	1360 x 768@60Hz
	1024 x 768@70Hz	1152 x 864@70Hz	1366 x 768@60Hz
	1024 x 768@75Hz	1152 x 864@75Hz	(Reduce Blanking)
	1024 x 768@85Hz	1152 x 870@75Hz	1366 x 768@60Hz
	1024 x 768@43Hz (interlaced)	(MAC 21) 1280 x 720@25Hz	1400 x 1050@59Hz 1400 x 1050@60Hz
	800 x 600@56Hz	1280 x 720@30Hz	(Reduce Blanking)
	800 x 600@60Hz	1280 x 720@50Hz	1400 x 1050@75Hz
	800 x 600@72Hz	1280 x 720@60Hz	1440 x 900@60Hz
	800 x 600@75Hz	1280 x 768@50Hz	(Reduce Blanking)
	800 x 600@85Hz	1280 x 768@60Hz	1440 x 900@60Hz
	832 x 624@75Hz (MAC)	(Reduce Blanking)	1440 x 900@75Hz
	640 x 480@57Hz	1280 x 768@60Hz	1440 x 900@85Hz
	640 x 480@60Hz	1280 x 768@75Hz	1600 x 1200@50Hz
	640 x 480@72Hz	1280 x 768@85Hz	1600 x 1200@60Hz

640 x 480@75Hz	1280 x 800@60Hz	1600 x 1200@65Hz
640 x 480@85Hz	(Reduce Blanking)	1600 x 1200@70Hz
640 x 480@66Hz (MAC)	1280 x 800@60Hz	1600 x 1200@75Hz
848 x 480@60Hz	1280 x 800@75Hz	1680 x 1050@59Hz
(Reduce Blanking)	1280 x 800@85Hz	1680 x 1050@60Hz
848 x 480@60Hz (CVT)	1280 x 960@60Hz	(Reduce Blanking)
848 x 480@60Hz (MAC)	1280 x 960@75Hz	1680 x 1050@60Hz
864 x 648@60Hz	1280 x 960@85Hz	1680 x 1050@75Hz
640 x 350@70Hz	1280 x 1024@59Hz	1920 x 1080@50Hz
640 x 350@85Hz	1280 x 1024@60Hz	1920 x 1080@60Hz
640 x 400@70Hz	1280 x 1024@70Hz (NCD)	(Reduce Blanking)
720 x 400@70Hz	1280 x 1024@72Hz (HP)	1920 x 1080@60Hz
640 x 350@85Hz	1280 x 1024@75Hz	1920 x 1200@50Hz
720 x 350@85Hz	1280 x 1024@76Hz (SUN)	1920 x 1200@60Hz
640 x 400@85Hz	1280 x 1024@85Hz	





## HPro Series 4 Channel Video Input Card

Order Code: DB-VWC2-HP-IC-VIDEO4

### Introduction



HPro series 4-channel video input card is able to input CVBS signal, support NTSC/PAL/SECAM. Support brightness, contrast, Horizontal starting position, Horizontal Width, Vertical starting position, Vertical Width adjustment.

### Feature

- Support NTSC\PAL\SECAM auto-adaption
- Support brightness, Chroma, contrast, gray scale, saturability adjustment.
- Support preview of input signal.
- Support signal cropping.
- Support configures on site, plug and play, hot swappable.
- Support station logo.
- Show blue screen when no signal input.
- Support 4 channels 3.5mm audio input

### Parameters

Type	Description	
<b>Physical Connector</b>	BNC x 4	
<b>Specification</b>	Input signal	CVBS
	Signal Level	1.0Vpp
	Impedance	75Ω
	Frame rate	60Hz-NTSC/50Hz-PAL
	Input channel	4
	Power	15W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)
<b>Input resolution</b>	PAL: 720X576i 50Hz	PAL-M: 720X576i 50Hz
	NTSC: 720X480i 60Hz	PAL-N: 720X576i 50Hz
	SECAM: 720X576i 50Hz	PAL-60: 720X576i 60Hz
	NTSC-443: 720X480i 60Hz	



## HPro Series 16 Channel CVBS Input Card

Order Code: DB-VWC2-HP-IC-CVBS16

### Introduction



16 channel CVBS input card is able to convert composite video signal to digital signal. Supports NTSC/PAL.

### Feature

- Support NTSC\PAL\SECAM auto-adaption (NTSC and PAL are not supported at the same time).
- Support quad view and single view mode.
- Supports 16 video signal input.
- Support signal source cropping.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.

### Transmission cable

DB15 port needs to be connected to the 8x BNC and then connected to the CVBS.



### Parameters

Type	Description	
<b>Physical Interface</b>	DB15 Port x2(can be converted to 8x BNC)	
<b>Specification</b>	Video Format	NTSC/PAL/SECAM
	Signal Level	1Vp-p
	Impedance	75Ω
	Resolution	720x480(NTSC) 720x576(PAL)
	Input Channel	16
	Power	20W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
<b>Appearance</b>	Humidity	10%~80%(Running) 10%~90%(Store)
	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 2 Channel IP Decoding Card (H.265)

Order Code: DB-VWC2-HP-IC-IPH2

### Introduction



2 channel IP decoding card with RJ45 interface. Single card supports up to 4000x3000@25 or 3840x2160@30 decoding and display to 4K screen. This card support working signal indicator, IP address modification and firmware upgrade online. Support embedded audio input.

- RUN: Light flickering
- LINK1: Light on
- LINK2: Light on

### Video Format

- Support video sources.
- Network CCTV camera.
- H.264/RTSP/RTP: Support manufacturers of network cameras such as Hikvision, Dahua, Axis, Santachi and so on.
- Security media service.
- Support Hikvision, Dahua full range of security device access.
- Encoding box, encoding card.
- Full range of DigiBird's H.264 / H.265 format encoding devices

### Decoding Capability

2 RJ45 ports per card, each port with 2x decoding channels. It can be independently set to diffidence working mode. Each channel in different modes of decoding in the form of:

- 1 view: Support up to 1 channel 4000x 3000@25 (or 3840x 2160@30) signal decoding. Single view output.
- 4 views: Support up to 4x channel 3840x 2160@30 signal decoding. Quad views

output.

- 9 views: Support up to 9x channel 1920 x 1080@30 signal decoding, 3x3 views output.
- 16 views: Support up to 16x channel 1920 x 1080@30 signal decoding, 4x4 views output.

### Parameters

Type	Description	
<b>IP Address</b>	Default IP Address:192.168.1.203	
<b>Physical Interface</b>	RJ45 port	10M/100M/1000M auto-adaption
	Port Qty	2
<b>Specification</b>	Power	26W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPRO Series 2 Channel IP Decoding Card (H.265 4K)

Order Code: DB-VWC2-HP-IC-4KIPH2

### Introduction



2 channel IP decoding card with RJ45 interface. Single card supports up to 4000x3000@25 or 3840x2160@30 decoding and display to 4K screen. This card support working signal indicator, IP address modification and firmware upgrade online. Support embedded audio input.

- RUN: Light flickering
- LINK1: Light on
- LINK2: Light on

### Video Format

Supported video sources:

- ◆ Network CCTV camera.

H.264/H.265/RTSP/RTP: Support manufacturers of network cameras such as Hikvision, Dahua, Axis, Santachi and so on.

- ◆ Security media service

Support Hikvision, Dahua full range of security device access.

- ◆ Encoding box, encoding card.
- ◆ Full range of DigiBird's H.264/H.265 format encoding devices

### Decoding Capability

2 RJ45 ports per card, each port with 1x decoding channels. It can be set to diffidence working mode independently. Each channel is able to be set to different modes as below:

Work Mode	Decoding Capacity	Output
1 view	Support up to 1 channel 4000x 3000@25Hz (or 3840x 2160@30Hz) signal decoding	Single view, 4K output
2x2 view	Support up to 4x channel 3840x2160@30Hz signal decoding	2x2 view. 4K output
3x3 view	Support up to 9x channel 1920x1080@30Hz signal decoding	3x3 view, 4K output
4x4 view	Support up to 16x channel 1920x1080@30Hz signal decoding	4x4 view 4K output

Max. decoding capacity is TWO channels 4000x3000@25Hz (or 3840x2160@30Hz) signals, or EIGHT channels 3840x2160@30Hz signals, or THIRTY-TWO channels 1920x1080@30Hz signals.



## Parameters

Type	Description	
<b>IP Address</b>	Default IP Address:192.168.1.203	
<b>Physical Interface</b>	RJ45 port x 2	10M/100M/1000M auto-adaption
<b>Specification</b>	Port Qty	2
	Power	27W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(l)x22.4(W)x2(h)



## HPro Series 4 Channel AVCNet Decoding Card

Order Code: DB-VWC2-HP-IC-AVCN4

### Introduction



HPro series 4-channel AVCNet decoding card supports up to 4-channel 1920x1200@60Hz decoding. It supports IP address modification and upgrade online through VWC2. With DigiBird special algorithm it can transmit video via network by lightweight compression, to achieve super performance in clear and synchronous video signal transmission.

### Video Format

As the device using private algorithm, it needs to be used in cooperate with DigiBird AVCNet encoder or transmitter.

### Decoding Capability

4 channels per card, each channel support up to 1920x1200@60 signal decoding.

### Parameters

Type	Description	
IP Address	Default IP Address:192.168.1.203	
Physical Interface	RJ45	1G auto-adaption
	Port Qty	4
Specification	Power	16W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
Appearance	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 2 Channel 4K Optical Fiber Input Card

Order Code: DB-VWC2-HP-IC-4KFIBER2

### Introduction



HPro series 2-channel 4K optical fiber input card can receive video signals transmitted by optical fiber and convert them into electrical signals. 4 ports are divided into 2 groups, each group have 1 primary port (A) and 1 standby port (B), which enhances the system's reliability. Support resolution up to 3840x2160@30Hz and backward compatible.

### Feature

- ◆ 2 primary input ports and 2 standby input ports per card.
- ◆ Max. Resolution 3840x2160@30Hz.
- ◆ Support the primary and standby function. Each group receives port A input signal by default. Switch to port B input signal automatically when A port has no input signal or input signal is abnormal.
- ◆ Support configure on site, plug and play, hot swappable.
- ◆ Support station logo.
- ◆ Show blue screen when no signal input.
- ◆ Support work with AVC-Link Transmitter.
- ◆ Support embedded audio input

### Parameters

Type	Description	
<b>Physical Interface</b>	LC x 4	
<b>Specification</b>	Max. Resolution	3840x2160@30Hz
	Frame Rate	Max. 30Hz at 4K; Max. 60Hz at 1080P
	Max. Transmission Rate	6Gbps
	Power	20W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)



## HPro Series 2 Channel 4K HDBaseT Input Card

Order Code: DB-VWC2-HP-IC-4KHDBT2

### Introduction



The HPro series 2-channel 4K HDBaseT input card can receive 2-channel 4K HDBaseT signal, which solves the inconvenience caused by short transmission distance of traditional DVI and other cables during installation. Needs to work with HDBaseT transmitter and also support POE output.

### Feature

- 2x input per card.
- Max. Resolution 3840x2160@30Hz.
- POE output is supported. The default POE output voltage is 48V and the maximum is 57V.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support 2 channels embedded audio input

### Parameters

Type	Description	
<b>Physical Interface</b>	RJ45 port x 2	
<b>Specification</b>	RJ45 Line Sequence	Standard 568A or 568B
	Connection way	RJ45 direct connection
	Transmission Distance	Max.100m(Cat 6 twist paired cable)
	Resolution	Max. 3840x2160@30Hz
	Power	21W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
<b>Appearance</b>	Humidity	10%~80%(Running),10%~90%(Store)
	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)





## HPro Series 4 Channel Optical Fiber Input Card

Order Code: DB-VWC2-HP-IC-FIBER4

### Introduction



HPro series 4-channel optical fiber input card can receive video signals transmitted by optical fiber and convert them into electrical signals. 8 ports are divided into 4 groups, each group have 1 primary port (A) and 1 standby port (B), which enhances the system's reliability. Support resolution up to 1920x1200@60Hz and automatically adapt to resolution changes.

### Feature

- 4 primary input ports and 4 standby input ports per card.
- Max. Resolution 1920x1200@60Hz.
- Support the primary and standby function. Each group receives port A input signal by default. Switch to port B input signal automatically when A port has no input signal or input signal is abnormal.
- Support configures on site, plug and play, hot swappable.
- Backward compatible.
- Support signal source cropping.
- Support station logo.
- Show blue screen when no signal input.
- Support interconnect with AVC-link Transmitter
- Support 4 channels embedded audio input

### Parameters

Type	Description	
<b>Physical Interface</b>	LC Optical fiber port x 8	
<b>Specification</b>	Max. Resolution	1920x1200
	Frame Rate	Max. 60Hz
	Max. Transmission Rate	3Gbps
	Power	20W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running), 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)



## HPRO Series 4 Channel HDBaseT Input Card

Order Code: DB-VWC2-HP-IC-HDBT4

### Introduction



The HPRO series 4-channel HDBaseT input card can receive 4 channel HDBaseT signal, which solves the inconvenience caused by short transmission distance of traditional DVI and other cables during installation. Needs to work with HDBaseT transmitter and also supports POE output.

### Feature

- 4 channel per card.
- Max. Resolution 1920x1200@60Hz.
- POE output is supported. The default POE output voltage is 48V and the maximum is 57V.
- Backward compatible.
- Support signal source cropping.
- Advanced EDID management also support EDID editing.
- Support configures on site, plug and play, hot swappable.
- Support source preview via Network Preview Card.
- Support station logo.
- Show blue screen when no signal input.
- Support 4 channels embedded audio input

### Parameters

Type	Description	
<b>Physical Interface</b>	RJ45X4	
<b>Specification</b>	RJ45 Line Sequence	Standard 568A or 568B
	Connection way	RJ45 direct connection
	Transmission distance	Max100m (Cat6 twist-pair cable)
	Resolution	Max. 1920x1200@60Hz
	Power	24W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)

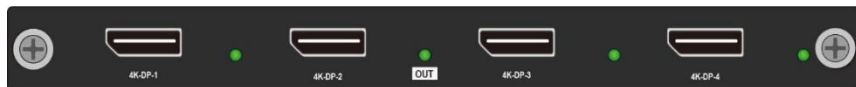


## Output Card

HPRO Series 4 Channel 4K DP Output Card

Order Code: DB-VWC2-HP-OC-4KDP4

### Introduction



The HPro series 4 channel 4K DP output card can output 4K DP signal to display devices. Support resolution up to 3840x2160@30Hz. Each channel support 4 layers output.

### Feature

- Support DP 1.1 protocol, maximum support 3840x2160@30Hz signal.
- Support HDCP1.3 validation.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Multi ports output with Sync and support synchronization with other signals.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

Type	Description		
<b>Physical Interface</b>	DP port x 4		
<b>Specification</b>	Output Signal	DP 1.1(maximum data rate 2.7Gbps)	
	Signal level	Vdiff <sub>P-P</sub> :130mV~1300mV	
	Impedance	100Ω	
	Max. Resolution	3840x2160	
	Frame Rate	Max. 30 frames at 4K resolution	
	Max. Transmission Rate	10.8Gbps	
	Output Channel	4	
	Power	28.5W	
	Temperature	0-50°C(Running)	
		-55 ~ 70°C(Store)	
Humidity	10%~80%(Running)10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4(W)x2(H)	



## HPro Series 4 Channel 4K HDBaseT Output Card

Order Code: DB-VWC2-HP-OC-4KHDBT4

### Introduction



The HPro series 4-channel 4K HDBaseT output card can transmit DVI/HDMI signal to up to 70 meters via CAT5/6 cable. Need to work with HDBaseT receiver also supports POE output.

### Feature

- 4 channel per card.
- Support resolution up to 3840X2160@30Hz.
- Support POE power supply function.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Multi ports output with Sync and support synchronization with other signals.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

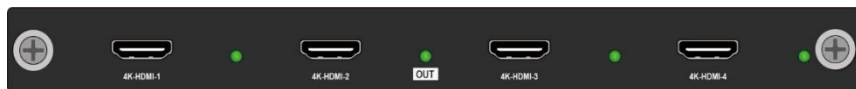
Type	Description	
<b>Physical Interface</b>	RJ45 port X4	
<b>Specification</b>	RJ45 line Sequence	Standard 568A or 568B
	Connection	RJ45 direct connection
	Transmission Distance	Max. 70m(Cat6 twisted pair cable)
	Resolution	Max. 3840X2160@30Hz
	Max. Transmission Rate	10.2Gbps
	POC Power Supply	Support 12V/24V POE
	Power	34.4W
	Temperature	0-50°C(Running) -55 ~ 70°C(Store)
<b>Appearance</b>	Humidity	10%~80%(Running) 10%~90%(Store)
	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)



## HPro Series 4 Channel 4K HDMI Output Card

Order Code: DB-VWC2-HP-OC-4KHDMI4

### Introduction



The HPro series 4 channel 4K HDMI output card can output 4K HDMI signal to display devices. Support resolution up to 3840x2160@30Hz. Each channel support 4 layers output.

### Feature

- The card supports HDCP 1.4 protocol.
- Support 3840x2160@30Hz and backward compatible.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play, hot swappable.
- Support background image.
- Multi ports output with Sync and support synchronization with other signals.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

Type	Description	
<b>Physical Interface</b>	HDMI Type A portX4	
<b>Specification</b>	Transmission Protocol	HDMI1.4
	Signal Level	T.M.D.S. 2.9V~3.3V
	Impedance	50Ω
	Max. Resolution	3840 x 2160
	Frame Rate	Max. 30 frames at 3840 x 2160P
	Transmission Rate	10.2Gbps (Max.)
	Output Channel	4
	Power	27.6W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
	Humidity	10%~80%(Running), 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 2 Channel 4K60 HDMI Output Card

Order Code: DB-VWC2-HP-OC-4K60HDMI2

### Introduction



The HPro series 2 channel 4K60 HDMI output card can output 4K60 (3840x2160@60Hz) HDMI signal to display devices. Each channel support 8 layers output.

### Feature

- The card supports HDCP 2.0 protocol.
- Support 3840x2160@60Hz and backward compatible.
- Each channel supports 8x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play, hot swappable.
- Support background image.
- Multi ports output with Sync and support synchronization with other signals.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 2 channels embedded audio output

### Parameters

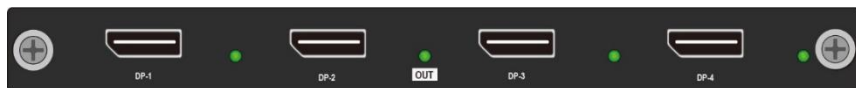
Type	Description	
<b>Physical Interface</b>	HDMI Type A portX2	
<b>Specification</b>	Transmission Protocol	HDMI2.0
	Signal Level	800mV-1200mV
	Impedance	100Ω
	Max. Resolution	3840 x 2160
	Frame Rate	Max. 60 frames at 3840 x 2160P
	Max. Transmission Rate	18Gbps
	Output Channel	2
	Power	40W
	Temperature	0-50°C(Running)-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 4 Channel DP Output Card

Order Code: DB-VWC2-HP-OC-DP4

### Introduction



The HPro series 4 channel DP output card can output DP signal to display devices. Support resolution up to 1920x1200@60Hz. Each channel support 4 layers output.

### Feature

- Support DP 1.0 protocol, maximum support 1920x1080@60Hz signal.
- Support HDCP1.3 validation.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play, hot swappable.
- Support background image.
- Multi ports output with Sync and support synchronization with other signals.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

Type	Description	
<b>Physical Interface</b>	DP standard portx4	
<b>Specification</b>	Output Signal	DP 1.0(maximum data rate 1.62Gbps)
	Signal Level	Vdiff <sub>P-P</sub> :130mV~1300mV
	Impedance	50Ω
	Max. Resolution	1920x1200
	Frame Rate	Max. 60 frames at 1920x1200
	Max. Transmission Rate	6.48Gbps
	Output Channel	4
	Power	23W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)



## HPro Series 4 Channel DVI Output Card

Order Code: DB-VWC2-HP-OC-DVI4

### Introduction



The HPro series 4 channel DVI output card can output DVI signal to display devices. Support resolution up to 1920x1200@60Hz. Each channel support 4 layers output.

### Feature

- Support up to 1920 x 1200@60Hz resolution.
- DVI-I port, can output VGA signal via DVI-VGA adapter.
- Each channel supports 4x layers with arbitrary roaming, overlay
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels 3.5mm audio output by DigiBird customized cable

### Parameters

Type	Description	
<b>Interface</b>	24+5 pin DVI-I portx4 (can output VGA signal via adapter)	
<b>Specification</b>	Output Signal	DVI 1.0
		VGA
	Signal Level	VdiffP-P:800mV-1200mV (DVI),0.7Vp-p(VGA)
	Impedance	100Ω(DVI), 75Ω(VGA)
	Max. Resolution	1920x1200@60Hz
	Max. Transmission Rate	4.95Gb/s
	Output Channel	4
	Power	28W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)





## HPro Series 4 Channel HDBaseT Output Card

Order Code: DB-VWC2-HP-OC-HDBT4

### Introduction



The HPro series 4-channel HDBaseT output card can transmit DVI/HDMI signal to up to 100 meters via CAT6 cable. Needs to work with HDBaseT receiver also support POE output.

### Feature

- 4 channel per card.
- Support max resolution 1920 x 1200@60Hz.
- Support POE power supply function.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

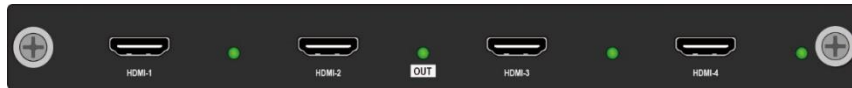
Type	Description	
<b>Physical Interface</b>	RJ45 portX4	
<b>Specification</b>	RJ45 Line Sequence	Standard 568A or 568B
	Connection Way	RJ45 direct connection
	Transmission Distance	Max.100m(Cat6 twisted pair cable)
	Resolution	Max. 1920X1200@60Hz
	Max. Transmission Rate	4.95Gbps
	Power	34.4W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)



## HPRO Series 4 Channel HDMI Output Card

Order Code: DB-VWC2-HP-OC-HDMI4

### Introduction



### Feature

- 4 channel per card.
- Support standard HDMI output, the maximum resolution is 1920x1080@60Hz.
- Support HDCP1.4 protocol.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support firmware upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameter

Type	Description	
<b>Physical Interface</b>	HDMI Type A port X 4	
<b>Specification</b>	Transmission protocol	HDMI1.3
	Signal Level	Vdiff <sub>p-p</sub> :800mV-1200mV
	Impedance	100Ω
	Max. Resolution	1920*1200@60Hz
	Frame Rate	Max. 60 frames at 1920x1200P
	Max. Transmission Rate	10.2Gbps
	Output Channel	4
	Power	26W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2.1(H)



## HPro Series 4 Channel SDI Output Card

Order Code: DB-VWC2-HP-OC-SDI4

### Introduction



The Hpro series 4 channel SDI output card can output SDI signal to display devices. Support HD/3G SDI format. Support resolution up to 1920x1080@60Hz. Each channel support 4 layers output.

### Feature

- Support 3G-SDI, HD-SDI output format.
- Support up to 1920x1080P @ 60Hz.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support firmware upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

Type	Description	
<b>Physical Interface</b>	BNC port x 4	
<b>Specification</b>	Output Signal	HD/3G SDI
	Signal Level	800mVp-p
	Impedance	75Ω
	Max. Transmission Rate	2.97Gbps
	Output Channel	4
	Power	27W
	Temperature	0-50°C(Running), -55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)
<b>Output Resolution</b>	1280 x 720p@50 Hz	1920 x 1080p@30Hz
	1280 x 720p@60 Hz	1920 x 1080p@50Hz
	1920 x 1080p@24 Hz	1920 x 1080p@60Hz
	1920 x 1080p@25Hz	



## HPro Series 4 Channel VGA Output Card

Order Code: DB-VWC2-HP-OC-VGA4

### Introduction



HPro series 4 channel VGA output card can output VGA/YPbPr/CVBS signal to display devices. Interface can be converted when use YPbPr and CVBS. It support resolution up to 1920x1080@60Hz. Each channel support 4 layers output.

### Feature

- Support up to 1920x1200 @ 60Hz.
- Supports VGA/YPbPr/CVBS signals.
- Each channel supports 4x layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Multi ports output with Sync and support synchronization with other signals.
- Support scrolling text.
- Support firmware upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels 3.5mm audio output.

### Parameters

Type	Description		
Physical Interface	15 pin D-sub port x4, 3.5mm Jack x4		
Output Signal	RGBHV /CVBS/YPbPr		
Specification	Signal Level	RGBHV	0.7Vp-p
		CVBS	1.0 Vp-p
		Y	1.0 Vp-p
		Pb/Pr	0.7 Vp-p
	Impedance	RGBHV	75Ω
		CVBS	75Ω
		Y Pb/Pr	75Ω
	Output Channel	4	
	Power	26W	
Temperature	0-50°C(Running), -55 ~ 70°C(Store)		
Humidity	10%~80%(Running) 10%~90%(Store)		



<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2(H)

## Resolution

Type	Resolution		
CVBS	720x480i 60Hz, NTSC		
	720x576i 50Hz, PAL		
VGA	640x480p@60Hz	1360x768p@60Hz	1680x1050p@60Hz
	800x600p@60Hz	1366x768p@60Hz	1680x1050pRB@60Hz
	1024x768p@60Hz	1400x1050p@60Hz	1920x1080pRB@60Hz
	1280x720p@60Hz	1600x1200p@60Hz	1920x1200pRB@60Hz
	1280x1024p@60Hz	1440x900p@60Hz	
YPbPr	640x480p@60Hz	1360x768p@60Hz	1680x1050p@60Hz
	800x600p@60Hz	1366x768p@60Hz	1680x1050pRB@60Hz
	1024x768p@60Hz	1400x1050p@60Hz	1920x1080pRB@60Hz
	1280x720p@60Hz	1600x1200p@60Hz	1920x1200pRB@60Hz
	1280x1024p@60Hz	1440x900p@60Hz	



## HPro Series 4 Channel Galileo DVI Output Card

Order Code: DB-VWC2-HP-OC-JDVI4

### Introduction



The HPro series 4 channel Galileo DVI output card can output DVI signal to display devices. Support resolution up to 1920x1200@60Hz. Each channel support 4/8 layers output. Working on 8 layers, 1<sup>st</sup> & 2<sup>nd</sup> channel will be combined as well the 3<sup>rd</sup> & 4<sup>th</sup> channel, you can take output either from 1<sup>st</sup> channel or 3<sup>rd</sup> channel.

Comparing to the 4 channel DVI output card, the 4 channel Galileo DVI output card is designed to show better performance at LED wall, to enhance the image quality during scaling (Zoom in, Zoom out).

### Feature

- Support up to 1920 x 1200@60Hz resolution.
- DVI-I port, can output VGA signal via DVI-VGA adapter.
- Advance scaling algorithm for output on LED display.
- Each channel supports 4/8 layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels 3.5mm audio output by DigiBird customized cable

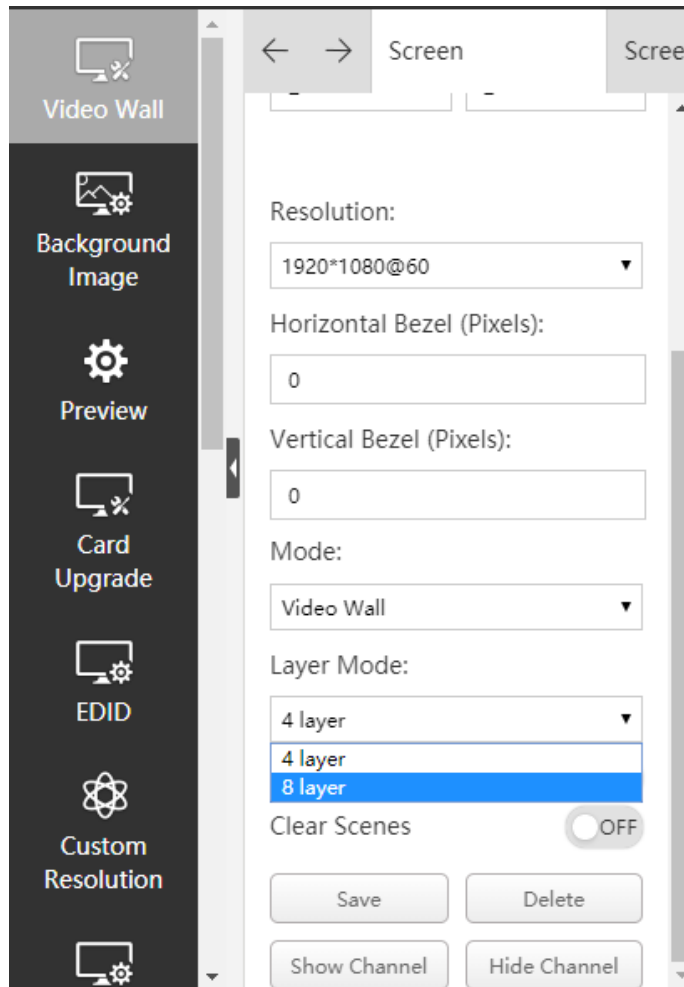
### Parameters

Type	Description		
<b>Physical Interface</b>	24+5 pin DVI-I portx4(can output VGA signal via adapter)		
<b>Specification</b>	Output Signal	DVI 1.0	
		VGA	
	Signal Level	VdiffP-P:800mV-1200mV (DVI)	
		0.7Vp-p(VGA)	
	Impedance	100Ω(DVI)	75Ω(VGA)
	Max. Resolution	1920x1200@60Hz	
	Max. Transmission Rate	4.95Gb/s	
	Output Channel	4	
	Power	35W	
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)	
Humidity	10%~80%(Running),10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4(W)x2.1(H)	



## Configuration:

Sign in Darwin → Video Wall → Layer Mode → Select 4/8 Layers



## HPro Series 4 Channel Galileo HDMI Output Card

Order Code: DB-VWC2-HP-OC-JHDMI4

### Introduction



The HPro series 4 channel Galileo HDMI output card can output HDMI signal to display devices. Support resolution up to 1920x1200@60Hz. Each channel support 4/8 layers output. Working on 8 layers, 1<sup>st</sup> & 2<sup>nd</sup> channel will be combined as well the 3<sup>rd</sup> & 4<sup>th</sup> channel, you can take output either from 1<sup>st</sup> channel or 3<sup>rd</sup> channel.

Comparing to the 4 channel HDMI output card, the 4 channel Galileo HDMI output card is designed to show better performance at LED wall, to enhance the image quality during scaling (Zoom in, Zoom out).

### Feature

- 4 channel per card.
- Support standard HDMI output, the maximum resolution is 1920x1080@60Hz.
- Support HDCP1.4 protocol.
- Advance scaling algorithm for output on LED display.
- Each channel supports 4/8 layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support firmware upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

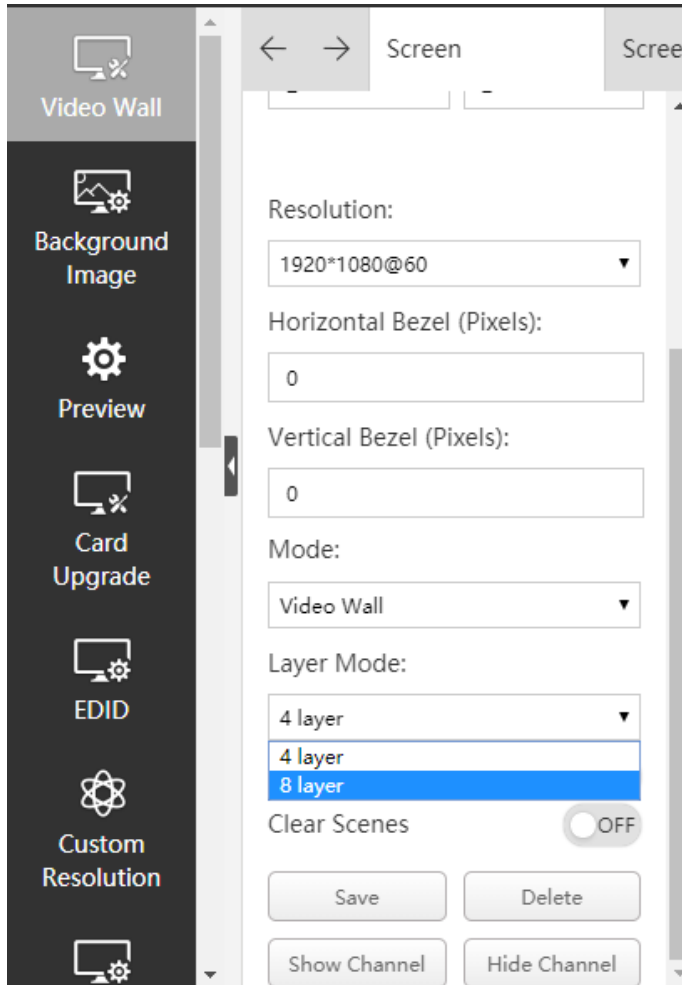
Type	Description	
<b>Physical Interface</b>	HDMI Type A Port x 4	
<b>Specification</b>	Transmission protocol	HDMI1.3
	Signal Level	Vdiff <sub>P-P</sub> :800mV-1200mV
	Impedance	100Ω
	Max. Resolution	1920*1200@60Hz
	Frame Rate	Max. 60 frames at 1920x1200P
	Max. Transmission Rate	5.1Gbps
	Output Channel	4
	Power	35W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2.1(H)





## Configuration:

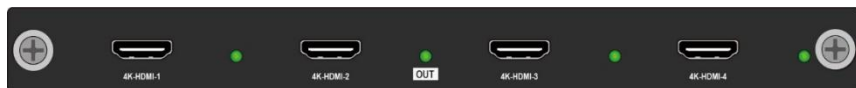
Sign in Darwin→Video Wall→Layer Mode→Select 4/8 Layers



## HPro Series 4 Channel Galileo 4K HDMI Output Card

Order Code: DB-VWC2-HP-OC-J4KHDMI4

### Introduction



The HPro series 4 channel Galileo 4K HDMI output card can output 4K HDMI signal to display devices. Support resolution up to 3840x2160@30Hz. Each channel support 4/8 layers output. Working on 8 layers, 1<sup>st</sup> & 2<sup>nd</sup> channel will be combined as well the 3<sup>rd</sup> & 4<sup>th</sup> channel, you can take output either from 1<sup>st</sup> channel or 3<sup>rd</sup> channel.

Comparing to the 4 channel 4K HDMI output card, the 4 channel Galileo 4K HDMI output card is designed to show better performance at LED wall, to enhance the image quality during scaling (Zoom in, Zoom out).

### Feature

- This card supports HDCP 1.4 protocol.
- Support 3840x2160@30Hz and backward compatible.
- Advance scaling algorithm for output on LED display.
- Each channel supports 4/8 layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play, hot swappable.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

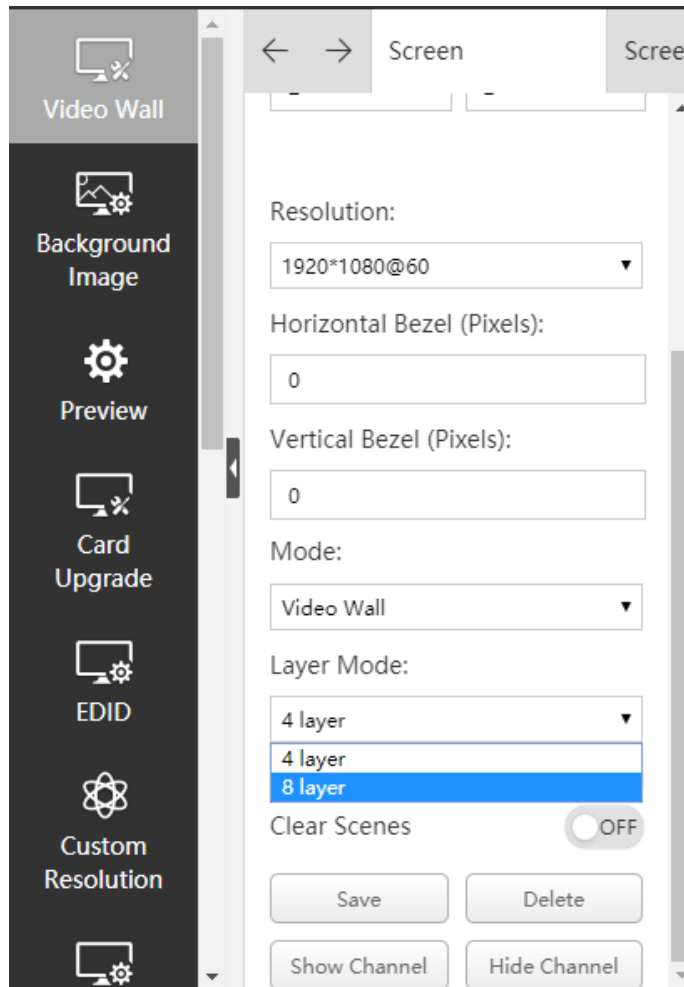
### Parameters

Type	Description	
<b>Physical Interface</b>	HDMI Type A Port x 4	
<b>Specification</b>	Transmission Protocol	HDMI1.4
	Signal Level	Vdiffp-p:800mV-1200mV
	Impedance	100Ω
	Max. Resolution	3840 x 2160
	Frame Rate	Max. 30 frames at 3840 x 2160P
	Max. Transmission Rate	10.2Gbps
	Output Channel	4
	Power	40W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2.1(H)



## Configuration:

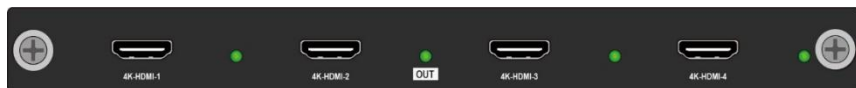
Sign in Darwin→Video Wall→Layer Mode→Select 4/8 Layers



## HPro Series 1 Channel Galileo 4K HDMI Output Card

Order Code: DB-VWC2-HP-OC-J4KHDMI1

### Introduction



The HPro series 1 channel Galileo 4K HDMI output card can output 4K HDMI signal to display devices. Support resolution up to 3840x2160@30Hz. Only 1<sup>st</sup> channel is available and supports up to 16 layers output.

Comparing to the 4 channel 4K HDMI output card, the 1 channel Galileo 4K HDMI output card is designed to show more information on single screen.

### Feature

- This card supports HDCP 1.4 protocol.
- Support 3840x2160@30Hz and backward compatible.
- Advance scaling algorithm for output on LED display.
- The 1<sup>st</sup> channel supports up to 16 layers output.
- Multi-channel synchronous output.
- Support to configure on site, plug and play, hot swappable.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 1 channel embedded audio output

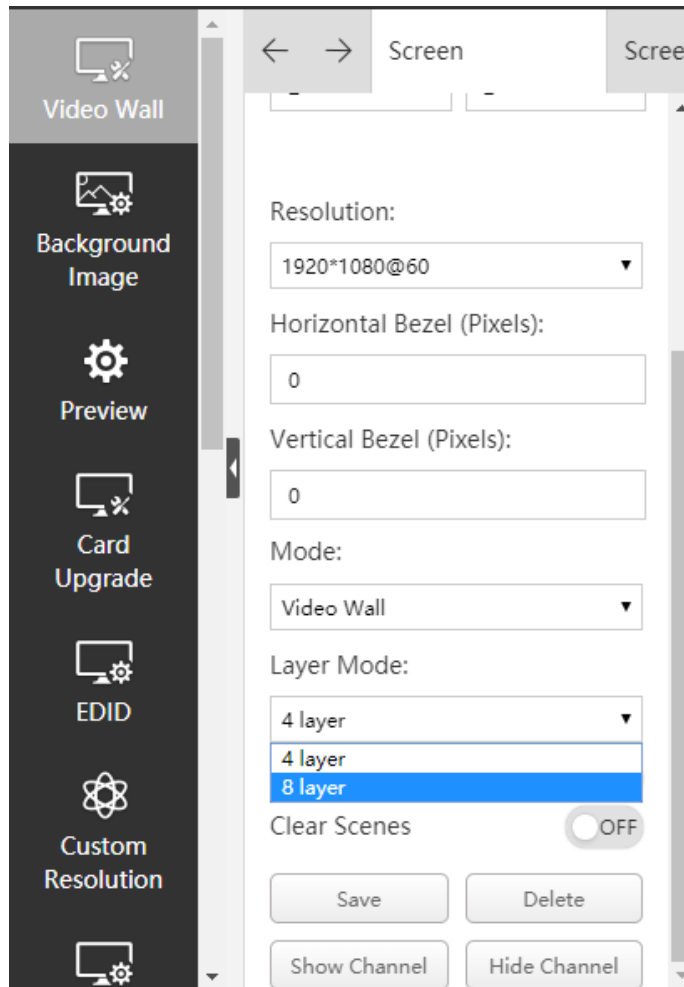
### Parameters

Type	Description	
<b>Physical Interface</b>	HDMI Type A Port x 4	
<b>Specification</b>	Transmission Protocol	HDMI1.4
	Signal Level	Vdiffp-p:800mV-1200mV
	Impedance	100Ω
	Max. Resolution	3840 x 2160
	Frame Rate	Max. 30 frames at 3840 x 2160P
	Max. Transmission Rate	10.2Gbps
	Output Channel	1
	Power	40W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2.1(H)



## Configuration:

Sign in Darwin→Video Wall→Layer Mode→Select 8 Layers



## HPro Series 2 Channel Galileo 4K60 HDMI Output Card

Order Code: DB-VWC2-HP-OC-J4K60HDMI2

### Introduction



The HPro series 2 channels Galileo 4K60 HDMI output card can output 4K60 HDMI signal to display devices. Support resolution up to 3840x2160@60Hz. Each channel is able to supports up to 8 layers output.

Comparing to the 2 channels 4K60 HDMI output card, the Galileo 4K60 HDMI output card is designed to show better performance on Mini Pitch LED Wall.

### Feature

- This card supports HDCP 1.4/HDCP2.2 protocol.
- Support 3840x2160@60Hz and backward compatible.
- Advance scaling algorithm for output on LED display.
- Each channel supports up to 8 layers output.
- Multi-channel synchronous output.
- Support to configure on site, plug and play, hot swappable.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 2 channels embedded audio output

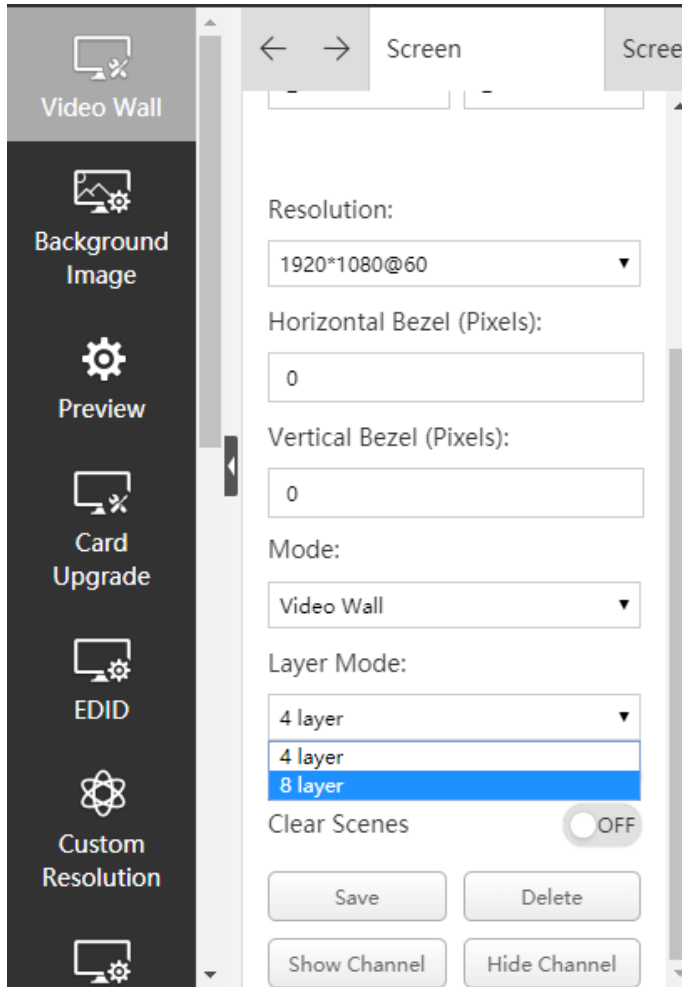
### Parameters

Type	Description	
<b>Physical Interface</b>	HDMI Type A Port x 2	
<b>Specification</b>	Transmission Protocol	HDMI2.0
	Signal Level	Vdiffp-p:800mV-1200mV
	Impedance	100Ω
	Max. Resolution	3840 x 2160
	Frame Rate	Max. 60 frames at 3840 x 2160P
	Max. Transmission Rate	18Gbps
	Output Channel	2
	Power	40W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running),10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4(W)x2.1(H)



## Configuration:

Sign in Darwin→Video Wall→Layer Mode→Select 4/8 Layers



## HPro Series 4 Channel Galileo HDBaseT Output Card

Order Code: DB-VWC2-HP-OC-JHDBT4

### Introduction



The HPro series 4-channel Galileo HDBaseT output card can transmit DVI/HDMI signal up to 100 meters via CAT6 cable. Needs to work with HDBaseT receiver also supports POE output.

Each channel support 4/8 layers output. Working on 8 layers, 1<sup>st</sup> & 2<sup>nd</sup> channel will be combined as well the 3<sup>rd</sup> & 4<sup>th</sup> channel, you can take output either from 1<sup>st</sup> channel or 3<sup>rd</sup> channel.

Comparing to the 4 channel HDBaseT output card, the 4 channel Galileo HDBaseT output card is designed to show better performance at LED wall, to enhance the image quality during scaling (Zoom in, Zoom out).

### Feature

- 4 channel per card.
- Support max resolution 1920 x 1200@60Hz.
- Support POE power supply function.
- Advance scaling algorithm for output on LED display.
- Each channel supports 4/8 layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

### Parameters

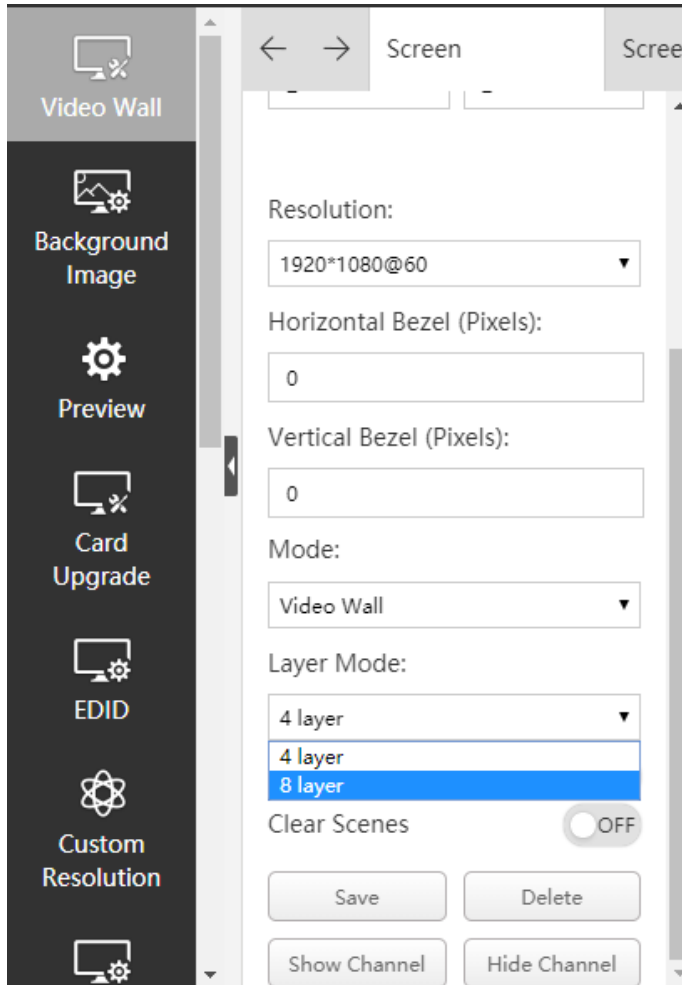
Type	Description	
<b>Physical Interface</b>	RJ45 Port x 4	
	RJ45 Line Sequence	Standard 568A or 568B
<b>Specification</b>	Protocol	HDBaseT 1.0
	Transmission Distance	Max.100m (Cat6 twisted pair cable)
	Resolution	Max. 1920X1200@60Hz
	Max. Transmission Rate	5.1Gbps
	Power	39W
	Temperature	0-50°C(Running),-55 ~ 70°C(Store)
	Humidity	10%~80%(Running) 10%~90%(Store)
<b>Appearance</b>	Card Type	Blade
	N.W.	0.3Kg
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)





## Configuration:

Sign in Darwin→Video Wall→Layer Mode→Select 4/8 Layers



## HPro Series 4 Channel Galileo 4K HDBaseT Output Card

Order Code: DB-VWC2-HP-OC-J4KHDBT4

### Introduction



The HPro series 4-channel Galileo 4K HDBaseT output card can transmit DVI/HDMI signal to up to 70 meters via CAT6 cable. Needs to work with HDBaseT receiver also supports POE output.

Each channel support 4/8 layers output. Working on 8 layers, 1<sup>st</sup> & 2<sup>nd</sup> channel will be combined as well the 3<sup>rd</sup> & 4<sup>th</sup> channel, you can take output either from 1<sup>st</sup> channel or 3<sup>rd</sup> channel.

Comparing to the 4 channel 4K HDBaseT output card, the 4 channel Galileo 4K HDBaseT output card is designed to show better performance at LED wall, to enhance the image quality during scaling (Zoom in, Zoom out).

### Feature

- 4 channel per card.
- Support max resolution 3840 x 2160@30Hz.
- Support POE power supply function.
- Advance scaling algorithm for output on LED display.
- Each channel supports 4/8 layers with arbitrary roaming, overlay.
- Multi-channel synchronous output.
- Support to configure on site, plug and play.
- Support background image.
- Support scrolling text.
- Support upgrade online.
- Support to be monitored by CMC card.
- Support 4 channels embedded audio output

DIGIBIRD TECHNOLOGY CO., LTD.

Email: sales@digibirdtech.com Tel: 400-820-8050

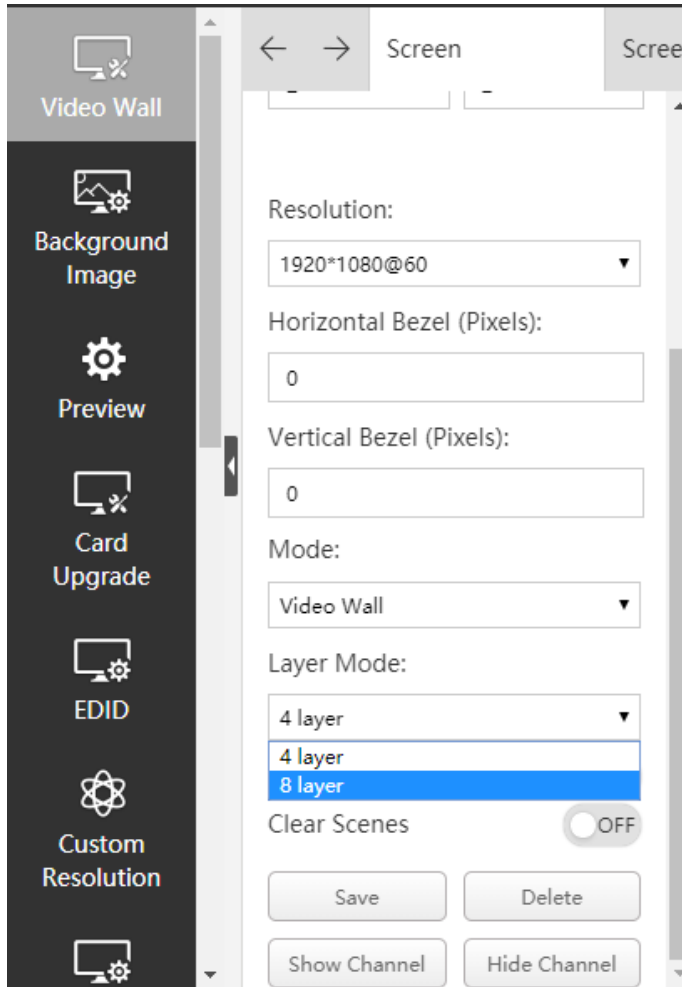
### Parameters

Type	Description		
<b>Physical Interface</b>	RJ45 Port x 4		
	RJ45 Line Sequence	Standard 568A or 568B	
<b>Specification</b>	Protocol	HDBaseT 1.0	
	Transmission Distance	Max.70m (Cat6 twisted pair cable)	
	Resolution	Max. 3840X2160@30Hz	
	Max. Transmission Rate	10.2Gbps	
	Power	44W	
	Temperature	0-50°C(Running)	
		-55 ~ 70°C(Store)	
Humidity	10%~80%(Running)		
	10%~90%(Store)		
<b>Appearance</b>	Card Type	Blade	
	N.W.	0.3Kg	
	Dimension(cm)	20.3(L)x22.4 (D)x2.1(H)	



## Configuration:

Sign in Darwin→Video Wall→Layer Mode→Select 4/8 Layers



## Power Supply Unit

Order Code: DB-ACM-PSU-550W



### Introduction

DigiBird provides standard PSU module, which can be used on all DigiBird video wall controllers.

### Parameters

Type	Description	
<b>Specification</b>	Max. Rated Power	550W
	Autorange INPUT	47 ~ 63 Hz
	Power IN	AC 100 ~ 127V/ 5.65A
		AC 200 ~ 240V/ 2.72A
	Power OUT	DC 12V/ 36.33A
		DC 12VSB/ 2A
	Temperature	0 ~ 50°C(Running), -40 ~ 70°C(Store)
Altitude	To 5000m (Running)	
Humidity	To 85%(Running)	
	To 95%(Store)	
<b>Appearance</b>	Unit Type	Rectangular
	N.W.	0.8Kg
	Dimension(cm)	22(L)x7.5 (W)x4(H)

