



DigiBird Technology Co., Ltd.

DB-UniStation

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Function Cards

Control Card

Order Code: [DB-AVCL-US-CC](#)

Introduction



Control card serves to collaborate with other I/O cards through distributing control commands.

Interface

- NET. Connect to control PC via Cat5/6 cable for communication.
- RS232IN. For serial control, not available yet.
- RS232OUT. Serial loop out port, not available yet.
- USB. Reserved for future update, not available yet.
- SYNC. Reserved for synchronization, not available yet.

Indicators

NET Indicators

Green light stands for connection: lights on indicate connection established, light off indicates abnormal connection. Yellow light stands for data communication: Blinking light indicates data communication in process, light off indicates no data communications.

Status Indicators

- M/S, Master/standup indicators, keeps on stands for master control card is working, off stands for standup control card.
- ALM, Alarm indicators, on stands for abnormal, off stands for working well.
- RDY, Program status indicators, keeps on stands for program boot up completed, off stands for in progress or abnormal.
- UN, running indicators, keeps on stands for running well, off stands for abnormal or failure.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Dedicated control card slot

Specifications

Item	Description	
Port	NET	
Serial	RS232	Baud 9600
		No Parity
		8 Data bit
		1 stop
	Power	7.2W
Temperature	0-50°C (working), -55~70°C (storage)	

	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

OSD Control Card

Introduction



The card servers to manage OSD menu command.

Interface

- NET. Connect to control PC via Cat5/6 cable for communication.
- RS232IN. For serial control, not available yet.
- RS232OUT. Serial loop out port, not available yet.
- USB. Reserved for future update, not available yet.
- SYNC. Reserved for synchronization, not available yet.

Indicators

NET Indicators

Green light stands for connection: lights on indicate connection established, light off indicates abnormal connection. Yellow light stands for data communication: Blinking light indicates data communication in process, light off indicates no data communications.

Status Indicators

- M/S, Master/standup indicators, keeps on stands for master control card is working, off stands for standup control card.
- ALM, Alarm indicators, on stands for abnormal, off stands for working well.
- RDY, Program status indicators, keeps on stands for program boot up completed, off stands for in progress or abnormal.
- RUN, Running indicators, keeps on stands for running well, off stands for abnormal or failure.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Dedicated control card slot

Specifications

Item	Description	
Port	NET	
Serial	RS232	Baud 9600
		No Parity
		8 Data bit
		1 stop
	Power	7.2W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade

	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

Input Cards

8x channels fiber input card

Order Code: [DB-AVCL-US-IC-F8](#)

Introduction



The card need to work with DigiBird fiber optical transmitter, which send video source to fiber input card and receive K&M signal from the card.

Features

- Auto detect input resolution.
- Up to 8x input per card.
- Signal cropping.
- Onsite configure, plug and play.

Requirement

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description	
Port	8x LC	
Parameter	Fiber module	Single mode
	Max. data rate	6.25Gbps
	Port Qty.	8
	Power	37W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels 4K HDMI input card

Order Code: [DB-AVCL-US-IC-4KHDMI4](#)

Introduction



The card can accept 4K HDMI resource from input devices and transfer to chassis for processing.

Features

- Support HDMI 1.4, compatible with DVI 1.9.
- HDCP compatible
- Auto detect input resolution.
- Dual channel per card.
- Support resource cropping.
- EDID management.
- Onsite configuration, plug and play.
- Support content preview by working with preview card.
- Support embedded audio.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description	
Connectors	4x HDMI Type A	
Parameter	Signal type	HDMI 1.4/DVI 1.0
	Signal level	V_{diff} , 150mV-1200mV
	Impedance	Z_{diff} , 100 Ω
	Max. resolution	3840x2160
	Refresh rate	3840x2160/30Hz
	Data rate	9Gbps
	Port qty.	4
	Power	20W
	Temperature	0-50 $^{\circ}$ C (working), -55~70 $^{\circ}$ C (storage)
Humidity	10%~80% (working), 10%~90% (Storage)	
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels DVI input card

Order Code: [DB-AVCL-US-IC-DVI4](#)

Introduction



The card can accept DVI resource from input devices and transfer to chassis for processing. Independent audio supported with external adaptors.

Features

- Support up to 1920x 1200/60Hz, backward compatible.
- Auto detect input resolution.
- Dual channel per card.
- Support resource cropping.
- EDID management.
- Onsite configuration, plug and play.
- Support content preview by working with preview card.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description		
Connectors	4x (24+5) pin DVI-D		
Parameter	Signal type	DVI 1.0	
	Signal level	V_{diff} , 150mV-1200 mV	
	Impedance	Z_{diff} , 100 Ω	
	Max. resolution	1920x 1200	
	Refresh rate	1920x 1200/60Hz	
	Data rate	4.95Gbps	
	Port qty.	4	
	Power	20W	
	Temperature	0-50 $^{\circ}$ C (working), -55~70 $^{\circ}$ C (storage)	
	Humidity	10%~80% (working), 10%~90% (Storage)	
Audio	Connectors	4x (4+5) pin DVI-I (require external adaptors)	
	Input voltage	V_{pp} 2.8V	
	Sampling rate	48KHz	
Physical	Type	Blade	
	Net Weight	0.3Kg	
	Dimensions	203x 224x 20mm (LxDxH)	

2x channels dual link DVI input card

Order Code: [DB-AVCL-US-IC-DDVI2](#)

Introduction



The card can accept dual-link DVI resource from input devices and transfer to chassis for processing. Independent audio supported with external adaptors.

Features

- Support up to 3840x 2160/30Hz, backward compatible.
- Auto detect input resolution.
- Support dual-link DVI input.
- Support resource cropping.
- EDID management.
- Onsite configuration, plug and play.
- Support content preview by working with preview card.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description	
Connectors	4x (24+5) pin DVI port, support DVI-D input	
Parameter	Signal type	DVI 1.0
	Signal level	V_{diff} , 150 mV -1200 mV
	Impedance	Z_{diff} , 100 Ω
	Max. resolution	3840x 2160
	Refresh rate	3840x 2160/30Hz
	Data rate	9.9Gbps
	Port qty.	2
	Power	20W
	Temperature	0-50 $^{\circ}$ C (working), -55~70 $^{\circ}$ C (storage)
Humidity	10%~80% (working), 10%~90% (Storage)	
Audio	Connectors	3.5mm audio
	Input voltage	V_{pp} , 2.8V
	Sampling rate	48KHz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels VGA input card

Order Code: DB-AVCL-US-IC-VGA4

Introduction



The card can accept VGA resource or YPbPr and CVBS with adaptors and transfer to chassis for processing.

Independent audio supported with external adaptors.

Features

- Support up to 1920x 1200/60Hz, backward compatible.
- Auto detect input resolution.
- Support image auto adjustment.
- Support RGB color, brightness and contrast ratio adjustment.
- 4x input per card.
- Support resource cropping.
- EDID management.
- Onsite configuration, plug and play.
- Support content preview by working with preview card.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description		
Connectors	4x 15pin D-sub port		
Signal type	RGBHV /CVBS/YPbPr		
Parameter	Singnel 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
	Port qty	4	
Power	20W		
Temperature	0-50°C (working), -55 ~ 70°C (storage)		
Humidity	10%~80% (working), 10%~90% (Storage)		
Resolution	CVBS	PAL PAL-N PAL-60 PAL-M/NTSC SECAM NTSC-443	

	YPbPr	480i /576i /480P /576P /720P25 /720P30 /720P50 /720P60 /1080i50 /1080i60 /1080P50 /1080P60 /1080P24 /1080P25 /1080P30		
	VGA	1024 x 768@60Hz 1024 x 768@70Hz 1024 x 768@75Hz 1024 x 768@85Hz 1024 x 768@43Hz (interlaced) 800 x 600@56Hz 800 x 600@60Hz 800 x 600@72Hz 800 x 600@75Hz 800 x 600@85Hz 832 x 624@75Hz (MAC) 640 x 480@57Hz 640 x 480@60Hz 640 x 480@72Hz 640 x 480@75Hz 640 x 480@85Hz 640 x 480@66Hz (MAC) 848 x 480@60Hz (Reduce Blanking) 848 x 480@60Hz (CVT) 848 x 480@60Hz (MAC) 864 x 648@60Hz 640 x 350@70Hz 640 x 350@85Hz 640 x 400@70Hz 720 x 400@70Hz 640 x 350@85Hz 720 x 350@85Hz 640 x 400@85Hz	720 x 400@85Hz 1152 x 864@70Hz 1152 x 864@75Hz 1152 x 870@75Hz (MAC 21) 1280 x 720@25Hz 1280 x 720@30Hz 1280 x 720@50Hz 1280 x 720@60Hz 1280 x 768@50Hz 1280 x 768@60Hz (Reduce Blanking) 1280 x 768@60Hz 1280 x 768@75Hz 1280 x 768@85Hz 1280 x 800@60Hz 1280 x 800@60Hz (Reduce Blanking) 1280 x 800@60Hz 1280 x 800@75Hz 1280 x 800@85Hz 1280 x 960@60Hz 1280 x 960@75Hz 1280 x 960@85Hz 1280 x 1024@59Hz 1280 x 1024@60Hz 1280 x 1024@70Hz (NCD) 1280 x 1024@72Hz (HP) 1280 x 1024@75Hz 1280 x 1024@76Hz (SUN) 1280 x 1024@85Hz	1360 x 768@60Hz 1366 x 768@60Hz (Reduce Blanking) 1366 x 768@60Hz 1400 x 1050@59Hz 1400 x 1050@60Hz (Reduce Blanking) 1400 x 1050@75Hz 1440 x 900@60Hz (Reduce Blanking) 1440 x 900@60Hz 1440 x 900@75Hz 1440 x 900@85Hz 1600 x 1200@50Hz 1600 x 1200@60Hz 1600 x 1200@65Hz 1600 x 1200@70Hz 1600 x 1200@75Hz 1680 x 1050@59Hz 1680 x 1050@60Hz (Reduce Blanking) 1680 x 1050@60Hz 1680 x 1050@75Hz 1920 x 1080@50Hz 1920 x 1080@60Hz (Reduce Blanking) 1920 x 1080@60Hz 1920 x 1200@50Hz 1920 x 1200@60Hz
Audio	Connectors	3.5mm audio		
	Input voltage	V _{pp} , 2.8V		
	Sampling rate	48KHz		

Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels 4K DP input card

Order Code: [DB-AVCL-US-IC-4KDP4](#)

Introduction



The card can accept 4x 4K DP resource from input devices and transfer to chassis for processing, embedded audio supported.

Features

- Support DP 1.1, up to 3840x 2160/30Hz.
- Compatible HDCP 1.4.
- Auto detect input resolution.
- 4x ports input per card.
- Support resource cropping.
- EDID management.
- Onsite configuration, plug and play.
- Support content preview by working with preview card.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description	
Connectors	4x DP input	
Parameter	Singal type	DP 1.1
	Signal level	V _{diff} : 130 mV ~1300 mV
	Impedance	Z _{diff} : 100Ω
	Max. resolution	3840x2160
	Refresh rate	3840x2160/30Hz
	Data rate	10.8Gbps
	Port qty.	4
	Power	20W
	Temperature	0-50°C (working), -55 ~ 70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels CVBS input card

Order Code: [DB-AVCL-US-IC-VIDEO4](#)

Introduction



The card can accept 4x CVBS resource from input devices and transfer to chassis for processing, independent audio supported with adaptors.

Features

- Support NTSC/PAL/SECAM self-adaptive.
- Support brightness, color, contrast ratio, gray scale and saturation adjustment.
- 4x ports input per card.
- Support resource cropping.
- EDID management.
- Onsite configuration, plug and play.
- Support content preview by working with preview card.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description	
Connectors	4x BNC	
Parameters	Signal type	CVBS
	Signal level	1.0 V _{pp}
	Impedance	75Ω
	Max. data rate	6.48Gbps
	Port qty	4
	Power	20W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Resolution	PAL 720X576i 50Hz NTSC 720X480i 60Hz SECAM 720X576i 50Hz NTSC-443 720X480i 60Hz	PAL-M 720X576i 50Hz PAL-N 720X576i 50Hz PAL-60 720X576i 60Hz
Audio	Connectors	3.5mm
	Input voltage	V _{pp} , 2.8V
	Sampling	48KHz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels SDI input card

Order Code: DB-AVCL-US-IC-SDI4

Introduction



The card can accept 4x SDI resource from input devices and transfer to chassis for processing, embedded audio supported.

Features

- Support 3G-SDI, HD-SDI, SD-SDI input.
- Support 1920x 1080/60Hz, and backward compatible.
- Auto detect input resolution.
- Support 4x port per card, support loop out signal cropping.
- EDID management.
- Plug and play.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description	
Connector	8x BNC	
Parameters	Signal type	SD/HD/3G SDI
	Signal level	Input SDI(SD&HD/3G): 0.8 V _{pp} Loop out SDI: 0.8 V _{pp}
	Impedance	75Ω
	Port qty	4
	Power	20W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Resolution	720 x 480i@60Hz 720 x 576 i@50Hz 1280 x 720p@50 Hz 1280 x 720p@60 Hz 1920 x 1080i@50 Hz 1920 x 1080i@60Hz	1920 x 1080p@24 Hz 1920 x 1080p@25Hz 1920 x 1080p@30Hz 1920 x 1080p@50Hz 1920 x 1080p@60Hz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

2x channels IP decoding card

Order Code: [DB-AVCL-US-IC-IPH2](#)

Introduction



2x ports IP decoder card, compatible with H.264/H.265 protocol. Each card with 2x ports and 4x channel. Each port supports up to 4 channels 3840x 2160/25Hz or 16 channels 1920x1080 or 32 channels 1280x720/30Hz IP stream decoding. Support work status indicator light, IP address modification and card online upgrade. The IP Card can display the decoded network data to the video wall directly. Maximum output resolution is 1920x 1080/60Hz. Embedded audio supported.

Video format

Supported video sources:

- Security Network Camera

H.264/H.265/RTSP/RTP: support leading manufacturers of network camera, e.g. HIKVISION, Dahua, HANBANG.

- Security Media Server

Support the whole series of the HIKVISION, Dahua, HANBANG products.

- Encode box, encode card.
- The whole series H.264/H.265 format encoding products of DigiBird decoders.

Decoding Capacity

2x ports per card, each port with 1x decoding channel, which can be configured as different working mode.

- Single view mode: support up to 1x 4000x 3000/25Hz or 3840x 2160/30Hz, single independent image output.
- Quad-view mode: support up to 4x 3840x 2160/30Hz, 4x streaming output with 4-in-1 image
- 9x view mode: support up to 9x 1920x 1080/30Hz, 9x streaming output with 9-in-1 image.
- 16x view mode: support up to 16x 1920x 1080/30Hz, 16x streaming output with 16-in-1 image.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description
IP	Default IP: 192.168.1.203

Connectors	2x RJ45	10M/100M/1000M self-adaption
Parameters	Port qty	2
	Power	30W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

2x channels 4K IP decoding card

Order Code: [DB-AVCL-US-IC-4KIPH2](#)

Introduction



2x ports IP decoder card, compatible with H.264/H.265 protocol. Each card with 2x ports and 2x channel. Each port supports up to 4 channels 3840x 2160/25Hz or 16 channels 1920x1080/30Hz or 32 channels 1280x720/30Hz IP stream decoding. Support work status indicator light, IP address modification and card online upgrade. The IP Card can display the decoded network data to the video wall directly. Maximum output resolution is 3840x 2160/30Hz.

Video format.

Supported video sources:

- Security Network Camera

H.264/H.265/RTSP/RTP: support leading manufacturers of network camera, e.g. HIKVISION, Dahua, HANBANG.

- Security Media Server

Support the whole series of the HIKVISION, Dahua, HANBANG products.

- Encode box, encode card.
- The whole series H.264/H.265 format encoding products of DigiBird decoders.

Decoding capacity

2x ports per card, each port with 1x decoding channel, which can be configured as different working mode.

- Single view mode: support up to 1x 4000x 3000/25Hz or 3840x 2160/30Hz, single independent image output.
- Quad-view mode: support up to 4x 3840x 2160/30Hz, 4x streaming output with 4-in-1 image
- 9x view mode: support up to 9x 1920x 1080/30Hz, 9x streaming output with 9-in-1 image.
- 16x view mode: support up to 16x 1920x 1080/30Hz, 16x streaming output with 16-in-1 image.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or input slot of 15U and 26U.

Specifications

Item	Description
IP	Default IP: 192.168.1.203

Connectors	2x RJ45	10M/100M/1000M self-adaption
Parameters	Port qty	2
	Power	30W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

Output Cards

8x channels fiber output card

Order Code: [DB-AVCL-US-OC-F8](#)

Introduction



The card need to work with DigiBird fiber optical receiver, which accept video source from output card and receive K&M signal.

With 8x available port, each supports display single source per monitor without preview.

Features

- 8x ports per card.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connectors	8x LC	
Parameters	Max. data rate	6.25Gbps
	Output qty.	8
	Power	47W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
	Type	Blade
	Net Weight	0.3Kg
Physical	Dimensions	203x 224x 20mm (LxDxH)

4x channels fiber output card

Order Code: DB-AVCL-US-OC-F4

Introduction



The card need to work with DigiBird fiber optical receiver, which accept video source from output card and receive K&M signal.

With 4x available port, each supports display single source per monitor with preview.

Features

- 4x ports per card.
- Support OSD preview.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connector	4x LC	
Parameter	Max. data rate	6.25Gbps
	Output qty.	4
	Power	47W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
	Type	Blade
	Net Weight	0.3Kg
Physical	Dimensions	203x 224x 20mm (LxDxH)

2x channels fiber output card

Order Code: DB-AVCL-US-OC-F2

Introduction



The card need to work with DigiBird fiber optical receiver, which accept video source from output card and receive K&M signal.

With 2x available port, each supports display quad-source per monitor with preview.

Features

- 2x ports per card.
- Support OSD preview.
- Support quad-view to display 4x sources per monitor.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connector	2x LC	
Parameter	Max. data rate	6.25Gbps
	Output qty.	2
	Power	47W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
	Type	Blade
Physical	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels 4K HDMI output card

Order Code: [DB-AVCL-US-OC-4KHDMI4](#)

Introduction



4x channels HDMI output per card, supports up to 3840x 2160/30Hz with embedded audio output.

Features

- Compatible with HDCP 1.4.
- 4x ports per card.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note:

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
- Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
- Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
- If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connectors	4x HDMI Type A	
Parameters	Signal type	HDMI 1.4/DVI1.0
	Signal level	V _{diff} : 150 mV -1200 mV
	Impedance	Z _{diff} : 100Ω
	Max. resolution	3840 x 2160
	Refresh rate	3840 x 2160/30Hz
	Max. data rate	10.2Gbps
	Port qty.	4
	Power	28W
	Temperature	0-50°C (working), -55~70°C (storage)
Humidity	10%~80% (working), 10%~90% (Storage)	
Physical	Type	Blade
	Net Weight	0.3Kg

	Dimensions	203x 224x 20mm (LxDxH)
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4x channels DVI output card

Order Code: [DB-AVCL-US-OC-DVI4](#)

Introduction



4x channels DVI output card, support independent audio output with external adaptors, up to 1920x 1080/60Hz resolution.

Features

- Up to 1920x 1080/60Hz, backward compatible.
- DVI-I port, can output VGA signal with DVI-VGA adaptor.
- 4x ports per card.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note:

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
- Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
- Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connector	4x (24+5)pin DVI-I	
Parameters	Signal type	DVI1.0
	Signal level	V _{diff} : 150 mV -1200 mV
	Impedance	Z _{diff} : 100Ω (DVI) Z: 75Ω (VGA)
	Max. resolution	1920x 1200
	Refresh rate	1920x 1200/ 60Hz
	Max. data rate	6Gbps
	Port qty.	4

	Power	28W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Audio	Connectors	4+5 针 DVI-I 接口 x4 (需外接定制转接线) 4x (4+5) pin DVI-I
	Input voltage	V _{pp} , 3.2V
	Impedance	200Ω
	Sampling	48KHz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

2x channels dual-link DVI output card

Order Code: [DB-AVCL-US-OC-DDVI2](#)

Introduction



2x channels dual-link DVI output card, supports up to 3840x 2160/30Hz, independent audio supported.

Features

- Up to 3840x 2160/30Hz, backward compatible.
- 2x output port per card.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note:

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
- Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
- Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connector	2x (24+5)pin DVI-I	
Parameters	Signal type	DVI 1.0
	Signal level	V _{diff} : 150 mV -1200 mV
	Impedance	Z _{diff} : 100Ω
	Max. resolution	3840x 2160
	Refresh rate	3840x 2160/30
	Max. data rate	9.9Gbps
	Port qty.	2
	Power	28W
	Temperature	0-50°C (working), -55~70°C (storage)
Humidity	10%~80% (working), 10%~90% (Storage)	
Audio	Connectors	3.5mm audio

	Input voltage	V _{pp} , 3.2V
	Impedance	200Ω
	Sampling	48KHz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels VGA output card

Order Code: DB-AVCL-US-OC-VGA4

Introduction



4x channels VGA output card, support independent audio, maximum resolution 1920x 1200/60Hz.

Features

- 1920x 1200/60Hz, backward compatible.
- Support VGA, YPbPr and CVBS.
- 4x port per card.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note:

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
- Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
- Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description		
Connector	4x 15pin D-sub		
Signal type	RGBHV /CVBS/YPbPr		
Parameters	Signal level	RGBHV	0.7V _{PP}
		CVBS	1.0 V _{PP}
		Y	1.0 V _{PP}
		Pb/Pr	0.7 V _{PP}
	Impedance	RGBHV	75Ω
CVBS		75Ω	

		Y Pb/Pr	75Ω
	Max. resolution	1920x 1200	
	Refresh rate	1920x 1200/60Hz	
	Port qty.	4	
	Power	26W	
	Temperature	0-50°C (working), -55~70°C (storage)	
	Humidity	10%~80% (working), 10%~90% (Storage)	
Audio	Connectors	3.5mm	
	Input voltage	V _{pp} : 3.2V	
	Impedance	200Ω	
	Sampling	48KHz	
Physical	Type	Blade	
	Net Weight	0.3Kg	
	Dimensions	203x 224x 20mm (LxDxH)	

4x channels 4K DP output card

Order Code: [DB-AVCL-US-OC-4KDP4](#)

Introduction



4x channels 4K DP output card, support embedded audio output, support up to 3840x 2160/30Hz.

Features

- Compatible with DP 1.1, support HDCP 1.3.
- 4x port per card.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note:

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
 - Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
 - Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
- If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connector	4x DP	
Parameter	Signal type	DP 1.1
	Signal level	V _{diff} : 130 mV ~1300 mV
	Impedance	Z _{diff} : 100Ω
	Max. resolution	3840x 2160
	Refresh rate	3840x 2160/30
	Max. data rate	10.8Gbps
	Port qty	4
	Power	28W
	Temperature	0-50°C (working), -55~70°C (storage)
Humidity	10%~80% (working), 10%~90% (Storage)	
Physical	Type	Blade

	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x channels CVBS output card

Order Code: [DB-AVCL-US-OC-VIDEO4](#)

Introduction



4x channels CVBS output, support 720x480 /60Hz (NTSC) / 720x576 /50Hz (PAL), independent audio supported.

Features

- Support NTSC/PAL.
- 4x output port.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note :

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
 - Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
 - Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
- If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Features

Item	Description	
Connector	4x BNC	
Parameter	Signal type	CVBS
	Signal level	1.0 V _{pp}
	Max. resolution	720x480i 60Hz, NTSC /720x576i 50Hz, PAL
	Refresh rate	60Hz-NTSC/50Hz-PAL
	Impedance	75Ω
	Port qty.	4
	Power	28W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Audio	Connectors	3.5mm

	Voltage	V _{pp} : 3.2V
	Impedance	200Ω
	Sampling	48KHz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

4x SDI output card

Order Code: [DB-AVCL-US-OC-SDI4](#)

Introduction



4x channels SDI output card, support embedded audio.

Features

- Compatible with 3G-SDI, HD-SDI and SD-SDI.
- 4x port per card.
- Each card can support 4x output by 2x layers, or 2x output with 4x layers, or 1x output with 8x layers.
- Sync output of multiple channels.
- Onsite configure, plug and play.

Note:

- Layers quantity can be configured, default is 2x layers per output while 4x ports available.
- Port #1 and #3 can be configured to 4x layers, while port #2 and #4 will be disabled.
- Port #1 can be configured to 8x layers while port #2, #3 and #4 will be disabled.
If output resolution less than 1920x 1200/60Hz, the source will occupy 1x layer. If exceed 1920x 1200/60Hz, the source will occupy 2x layers.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description		
Connector	4x BNC		
Parameter	Signal type	SD/HD/3G SDI	
	Signal level	0.8 V _{pp}	
	Impedance	75Ω	
	Max. resolution	1920x1080	
	Refresh rate	1920x1080/60	
	Max. data rate	3Gbps	
	Port qty.	4	
	Power	28W	
	Temperature	0-50°C (working), -55 ~ 70°C (storage)	
	Humidity	10%~80% (working), 10%~90% (Storage)	
Resolution	720 x 480i@60Hz	1920 x 1080p@24 Hz	
	720 x 576 i@50Hz	1920 x 1080p@25Hz	

	1280 x 720p@50 Hz 1280 x 720p@60 Hz 1920 x 1080i@50 Hz 1920 x 1080i@60Hz	1920 x 1080p@30Hz 1920 x 1080p@50Hz 1920 x 1080p@60Hz
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)

Network Previewing Card

Order Code: DB-AVCL-US-OC-NPC

Introduction



The card is one of output cards, servers to preview input source content or virtual video wall display via network.

Features

- Preview up to 32x input source per card.
- Support multiple preview card.

Requirements

Item	Description
Software	Darwin version V1.2.0.9 or above
Hardware	Works for 4U, 8U, 15U and 26U chassis
Position	Could be positioned to any I/O slot of 4U and 8U chassis, or output slot of 15U and 26U.

Specifications

Item	Description	
Connector	1x RJ45	
Parameter	Capability	Preview up to 32x input source per card
	Refresh rate	10fps
	Power	26W
	Temperature	0-50°C (working), -55~70°C (storage)
	Humidity	10%~80% (working), 10%~90% (Storage)
Physical	Type	Blade
	Net Weight	0.3Kg
	Dimensions	203x 224x 20mm (LxDxH)
Resolution	Input list	480x270
	Virtual Video wall	120x67.5