

DigiBird Technology Co., Ltd.

AVCLink-H

Card Specification Sheet V2.6

Table of Contents

Function Card	1
AVCLink H Series Control Card	1
AVCLink H Series Enhanced Control Card	3
AVCLink H Series Previewing Card	5
AVCLink H Series Enhanced Preview Card	6
Interface Card	7
AVCLink H Series 8-Channel Fiber Interface Card	7
AVCLink H Series 8-Channel Enhanced Fiber Interface Card	8
Input Card	9
AVCLink H Series 4-Channel 4K60-HDMI Input Card	9
AVCLink H Series 4-Channel 4K60-DP Input Card	11
AVCLink H Series 4-Channel 12G-SDI Input Card	13
AVCLink H Series 4-Channel 4K-HDMI Input Card	14
AVCLink H Series 4-Channel 4K-DP Input Card	16
AVCLink H Series 4-Channel 4K-HDBaseT Input Card	18
AVCLink H Series 4-Channel DVI Input Card	19
AVCLink H Series 4-Channel SDI Input Card	21
AVCLink H Series 4-Channel VGA Input Card	22
AVCLink H Series 4-Channel CVBS Input Card	25
AVCLink H Series 4-Channel YPBPR Input Card	27
AVCLink H Series 4-Channel VIDEO Input Card	29
AVCLink H Series 4-Channel 4K Lossless Decoding Card	31
AVCLink H Series 2-Channel H265-4K-IP Decoding Card	32
AVCLink H Series 2-Channel H265 IP Decoding Card	34
Output Card	36
AVCLink H Series 4-Channel 4K60-HDMI Output Card	36
AVCLink H Series 4-Channel 4K60-DP Output Card	38
AVCLink H Series 4-Channel 12G-SDI Output Card	39
AVCLink H Series 4-Channel 4K-HDMI Output Card	41
AVCLink H Series 4-Channel 4K-DP Output Card	42



AVCLink H Series 4-Channel 4K-HDBaseT Output Card	43
AVCLink H Series 4-Channel Shared 4K-HDMI Output Card	44
AVCLink H Series 4-Channel Shared 4K-DP Output Card	46
AVCLink H Series 4-Channel DVI Output Card	48
AVCLink H Series 4-Channel SDI Output Card	50
AVCLink H Series 4-Channel VGA Output Card	51
AVCLink H Series 4-Channel CVBS Output Card	53
AVCLink H Series 4-Channel YPBPR Output Card	54
AVCLink H Series 4-Channel VIDEO Output Card	56
AVCLink H Series 1-Channel H265 IP Encoding Card	58
AVCLink H Series 1-Channel H264 IP Encoding Card	59



Function Card

AVCLink H Series Control Card

Introduction

The AVCLink H-series control card is responsible for communicating with the host computer software, processing control commands for various cards in the entire system, coordinating signal interaction between cards, and can be accessed directly through a browser.



Interfaces

INTERFACE	DESCRIPTION
USB	Reserved interface
NET	Network interface, which is used to connect control devices such as a PC and a PAD via a network cable.
SYNC	Reserved interface
RS232 IN	Used to implement serial port control
RS232 OUT	The loop-out serial port is used for controlling other devices.

Indicators

INTERFACE	DESCRIPTION	
NET PORT INDICATOR LIGHT	A green light indicates a connected circuit; a constantly lit light indicates a connection, while a constantly dim light indicates a fault. A yellow light is a data exchange indicator; flashing indicates data exchange is occurring, while a constantly dim light indicates no data exchange is occurring.	
OPERATING STATUS INDICATOR	M/S	The main/standby indicator light is always on for the main control card and always off for the standby control card.
	ALM	The alarm indicator light will illuminate continuously if there is a malfunction, and will remain dark if it is normal.
	RDY	The program status indicator light will illuminate continuously if the program has finished starting, and remain dark if the program is starting or encountering a startup error.
	RUN	The operation indicator light will illuminate continuously if the card is running, and will remain dark if a fault or abnormal operation has occurred.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to AVCLink H series 4U/8U/15U/26U chassis.
POSITION	This card is installed in the dedicated control card slot of the corresponding chassis.



Parameters

TYPE	DESCRIPTION	
CONTROL INTERFACE	RJ45 interface (NET)	
PERFORMANCE	RS232	Loop in baud rate: 9600; Loop out baud rate: 9600, 38400, 115200
		No parity check
		8 data bits
		1 stop bit
	Power	8W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series Enhanced Control Card

Introduction

The AVCLink H-series enhanced control card is responsible for communicating with the host computer software, processing control commands for various cards in the entire system, coordinating signal interaction between cards, and can be accessed directly through a browser.



Interfaces

INTERFACE	DESCRIPTION
USB	Reserved interface
NET	Network interface, which is used to connect control devices such as PCs and iPads via a network cable.
SYNC	Reserved interface
RS232 IN	Used to implement serial port control
RS232 OUT	The loop-out serial port is used for controlling other devices.

Indicators

INDICATOR	DESCRIPTION	
NET PORT INDICATOR LIGHT	A green light indicates a connected circuit; a constantly lit light indicates a connection, while a constantly dim light indicates a fault. The yellow light is a data exchange indicator; flashing indicates data exchange is occurring, while a solid yellow light indicates no data exchange is occurring.	
OPERATING STATUS INDICATOR	M/S	The main/standby indicator light is always on for the main control card and always off for the standby control card.
	ALM	The alarm indicator light will illuminate continuously if there is a malfunction, and will remain dark if it is normal.
	RDY	The program status indicator light will illuminate continuously if the program has finished starting, and remain dark if the program is starting or encountering a startup error.
	RUN	The operation indicator light will illuminate continuously if the card is running, and will remain dark if a fault or abnormal operation has occurred.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Suitable for AVCLink H-series enhanced 1.5U / 32U/36U chassis.
POSITION	This card is installed in the dedicated control card slot of the corresponding chassis. At least two control cards are required for the 3 6U chassis.



Parameters

TYPE	DESCRIPTION	
CONTROL INTERFACE	RJ45 interface (NET)	
PERFORMANCE	RS232	Loop in baud rate: 9600; Loop out baud rate: 9600, 38400, 115200
		No parity check
		8 data bits
		1 stop bit
	Power	8W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series Previewing Card

Introduction

The previewing card can compress and encode the input image data in the controller and transmit it to the controller management software via the network. The video data output by the controller can be viewed in real time on the management software, which facilitates the operation and monitoring of the input signals.



Features

- A single card supports a 32-channel signal preview
- Can be configured on-site, plug and play
- Supports online firmware upgrades for cards

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Suitable for AVCLink H series 4U/8U/15U/26U chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U chassis, or in the output card slot of a 15U/26U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	RJ45 interface	
PERFORMANCE	NET output	Each card supports 32 signal previews.
	Power	32W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x20(h) (mm)



AVCLink H Series Enhanced Preview Card

Introduction

The previewing card can compress and encode the input image data in the controller and transmit it to the controller management software via the network. The video data output by the controller can be viewed in real time on the management software, which facilitates the operation and monitoring of the input signals.



Features

- A single card supports a 64-channel signal preview
- Supports inserting multiple previewing cards
- Can be configured on-site, plug and play
- Supports online firmware upgrades for cards

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Suitable for AVCLink H series enhanced 1 5U/ 32U/36U chassis.
POSITION	This card can be installed in any service board slot of the enhanced 15U/32U chassis, or in the output board slot of the 36U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	RJ45 interface	
PERFORMANCE	NET output	Each card supports 64-channel signal previews.
	Power	30W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x20(h) (mm) (mm)



Interface Card

AVCLink H Series 8-Channel Fiber Interface Card

Introduction

The AVCLink H-series 8-channel fiber optic interface card requires an optical transceiver to operate. When used with a fiber optic transmitter, the transmitter sends video signals to the card; when used with a fiber optic receiver, the card sends video signals to the receiver. A single card supports 8-channel signal inputs/ outputs, each supporting one video feed. The maximum resolution for a single channel is 4K30, and two channels can be combined to support 4K60. Embedded audio input and web preview are supported. Only 26U and smaller chassis are supported.



Features

- Automatically detect resolution changes
- A single card supports 8-channel input/output
- Supports embedded audio
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Suitable for AVCLink H series 4U/8U/15U/26U chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U chassis, or in the input/output card slot of a 15U/26U chassis.

Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	LC type interface x8	
PERFORMANCE	Fiber type	single-mode
	Transmission rate max.	6.25Gbps
	Input channels	8
	Power	30W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 8-Channel Enhanced Fiber Interface Card

Introduction

The AVCLink H-series 8-channel enhanced fiber optic interface card requires an optical transceiver for use. When used with a fiber optic transmitter, the transmitter sends video signals to the card; when used with a fiber optic receiver, the card sends video signals to the receiver. A single card supports 8-channel signal inputs/ outputs, each supporting one video feed. The maximum resolution for a single channel is 4K30, and two channels can be combined to support 4K60. Embedded audio input and web preview are supported. It is only applicable to enhanced 15U, 32U, and 36U chassis.



Features

- Automatically detect resolution changes
- A single card supports 8-channel input/output
- Supports embedded audio
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Suitable for AVCLink H series enhanced 15U/ 32U/36U chassis.
POSITION	This card can be installed in any service card slot of the enhanced 15U and 32U chassis, or in the input/output card slot of the 36U chassis.

Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	LC type interface x8	
PERFORMANCE	Fiber type	single-mode
	Transmission rate max.	6.25Gbps
	Input channels	8
	Power	35W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



Input Card

AVCLink H Series 4-Channel 4K60-HDMI Input Card

Introduction

The AVCLink H-series 4-channel 4K60-HDMI input card can directly receive external HDMI signals and process the externally input HDMI video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel HDMI video signal inputs, with a maximum resolution of 4096x2160@60Hz, and supports embedded audio and a 3.5mm independent audio input.



Features

- Supports 4K@60Hz signal
- Automatically detect resolution changes
- A single card supports a 4-channel signal input
- Supports 3.5mm independent audio input
- Support EDID management
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	HDMI Type-A ports x4	
PERFORMANCE	Input signal	HDMI 2.0
	Signal level	Vdiff: 150mV–1200mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	4096x2160
	Frame rate	The highest frame rate at 4096x2160 resolution is 60 frames per second.
	Transmission rate max.	18.6Gbps
	Input number	4
	Power	56W
	Temperature	0–50°C (operating), -55–70 °C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack x 4
	Input voltage	Vpp: 2.8V
	Sampling rate	48kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 4K60-DP Input Card

Introduction

The AVCLink H-series 4-channel 4K60 DP input card can directly receive external DP signals and process the externally input DP video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel DP format video signal inputs, with a maximum resolution of 4096x2160@60Hz, and supports embedded audio and a 3.5mm independent audio input. It supports the DP 1.2 protocol and HDCP verification.



Features

- Supports DP 1.2 protocol, maximum support for 4096x2160@60Hz signals
- Supports HDCP 2.2 and HDCP 1.4 authentication
- Automatically detect resolution changes
- A single card supports a 4-channel signal input
- Supports embedded and 3.5mm independent audio input
- Support EDID management
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	DP standard interface x4	
PERFORMANCE	Input signal	DP1.2
	Signal level	Vdiff: 130 mV–1300 mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	4096x2160
	Frame rate	The highest frame rate at 4096x2160 resolution is 60 frames per second.
	Transmission rate max.	18.6Gbps
	Input number	4
	Power	60W
	Temperature	0–50°C (operating), -55–70 °C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack x 4
	Input voltage	Vpp: 2.8V
	Sampling rate	48kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 12G-SDI Input Card

Introduction

The AVCLink H series 4-channel 12G-SDI input card can directly receive external SDI signals and process the externally input SDI video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel SDI format video signal input, supports video loop-out, has a maximum resolution of 3840x2160@60Hz, and supports embedded audio input.



Features

- Supports 1G-SDI, 2G-SDI, 6G-SDI, 3G-SDI, HD-SDI, and SD-SDI input formats
- Supports 3840x2160P@60Hz
- Automatically detect resolution changes
- A single card supports 4-channel input and loop-out
- Support EDID management
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION		
INPUT INTERFACE	BNC interface x8		
PERFORMANCE	Input signal	SD/HD/3G SDI/ 6G SDI/12G SDI	
	Signal level	Input SDI (SD & HD/3G / 6G) / 12G): 0.8 Vpp Loop-out SDI: 0.8 Vpp	
	Impedance	75Ω	
	Input number	4	
	Power	60W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
RESOLUTION	3840 x 2160p@60hz 3840 x 2160p @30hz 1280 x 720p@50 hz	Interlacing is not supported 1920 x 1080p@24 Hz 1920 x 1080p@25Hz	1920 x 1080p@30Hz 1920 x 1080p@50Hz 1920 x 1080p@60Hz
APPEARANCE	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 4-Channel 4K-HDMI Input Card

Introduction

The AVCLink H series 4-channel 4K HDMI input card can directly receive external HDMI signals and process the external HDMI video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel HDMI video signal inputs with a maximum resolution of 3840x2160@30Hz, and supports embedded audio input. It supports the HDMI 1.4 protocol, is Applicable to the DVI 1.0 protocol, and supports HDCP verification.



Features

- Supports the HDMI 1.4 protocol, applicable to the DVI 1.0 protocol, and supports 4K@30Hz signal
- Supports HDCP verification
- Automatically detect resolution changes
- A single card supports 4-channel input
- Support EDID management
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	HDMI Type-A ports x4	
PERFORMANCE	Input signal	HDMI 1.4 / DVI 1.0
	Signal level	Vdiff: 150mV–1200mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	3840x2160
	Frame rate	The maximum frame rate is 30 frames per second at 3840x2160 resolution.
	Transmission rate max.	10.2Gbps
	Input number	4
	Power	20W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 4K-DP Input Card

Introduction

The AVCLink H series 4-channel 4K-DP input card can directly receive external DP signals and process the externally input DP video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel DP format video signal inputs with a maximum resolution of 3840x2160@30Hz, and supports embedded audio input. It supports the DP 1.1 protocol and HDCP verification.



Features

- Supports DP 1.1 protocol, maximum supported signal resolution of 3840x2160@30Hz
- Supports HDCP 1.4 verification
- Automatically detect resolution changes
- A single card supports 4-channel input
- Support EDID management
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	DP standard interface x4	
PERFORMANCE	Input signal	DP 1.1
	Signal level	Vdiff: 130 mV–1300 mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	3840x2160
	Frame rate	The maximum frame rate is 30 frames per second at 3840x2160 resolution.
	Transmission rate max.	10.2Gbps
	Input number	4
	Power	22W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 4K-HDBaseT Input Card

Introduction

The AVCLink H- series 4-channel 4K-HDBaseT input card can receive HDBaseT signals, solving the inconvenience caused by the short transmission distance of traditional DVI and other cables during construction and wiring. This card has a built-in HDBaseT receiver chip and needs to be used in conjunction with other devices that have built-in HDBaseT transmitter chips.



Features

- Maximum supported resolution: 3840x2160@30Hz
- Automatically detect resolution changes
- A single card supports 4-channel input
- Support EDID management
- Can be configured on-site, plug and play
- Supports signal preview
- It supports PoE Power supply. As a Power supply device, the PoE supply voltage needs to be selected according to the requirements of the Power receiving device. The typical PoE supply voltage is 48V, and the maximum value is 57V.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	RJ45 interface x 4	
PERFORMANCE	RJ45 wiring sequence	Standard 568A or 568B
	Connection method	RJ45 straight-through cable connection
	Transmission distance	Maximum length 70 meters (Category 6 twisted pair cable)
	Supported resolutions	Maximum 3840x2160@30Hz
	Power	30W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel DVI Input Card

Introduction

The AVCLink H series 4-channel DVI input card converts DVI-D signals output from computer graphics cards and other graphics devices into digital signals via a dedicated DVI signal receiver chip before sending them to the processor. It boasts strong compatibility, supporting resolutions up to 1920x1200, automatically detecting dynamic switching between various resolutions, and performing image resolution conversion and optimization on the input signal to achieve the desired viewing effect. Its simple modular design allows users to quickly integrate it into existing systems.



Features

- Supports any resolution in the range of 640x480@60Hz to 1920x1200@60Hz
- Automatically detect resolution changes
- A single card supports 4-channel input
- Configurable on-site, plug and play
- Supports signal preview
- Advanced EDID management, supporting EDID changes
- Supports input label scaling to 2x and 4x
- It supports 4-channel 3.5mm audio input via a special cable
- When there is no signal input, a preset color (blue screen) will be displayed

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	24+5 pin DVI interface x4, supports DVI-D signals	
PERFORMANCE	Input signal	DVI 1.0
	Signal level	Vdiff: 150mV–1200mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	1920x1200
	Frame rate	The maximum frame rate is 60 frames per second at 1920x1200 resolution.
	Transmission rate max.	4.95Gbps
	Input number	4
	Power	20W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	24+5 pin DVI interface x4 (requires external custom adapter cable)
	Input voltage	Vpp: 2.8V
	Sampling rate	48 kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel SDI Input Card

Introduction

The AVCLink H series 4-channel SDI input card can directly receive external SDI signals and process the externally input SDI video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel SDI format video signal input, supports video loop-out, has a maximum resolution of 1920x1080@60Hz, and supports embedded audio input.



Features

- Supports 3G-SDI, HD-SDI, and SD-SDI input formats
- Supports input resolutions up to 1920x1080P@60Hz
- Automatically detect resolution changes
- A single card supports 4-channel input and loop-out
- Support EDID management
- Configurable on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION		
INPUT INTERFACE	BNC interface x8		
PERFORMANCE	Input signal	SD/HD/3G SDI	
	Signal level	Input SDI (SD & HD/3G): 0.8 Vpp Loop-out SDI: 0.8 Vpp	
	Impedance	75Ω	
	Input number	4	
	Power	20W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
RESOLUTION	720 x 480i@60Hz	1920 x 1080i@50 Hz	1920 x 1080p@30Hz
	720 x 576i@50Hz	1920 x 1080i@60Hz	1920 x 1080p@50Hz
	1280 x 720p@50 Hz	1920 x 1080p@24 Hz	1920 x 1080p@60Hz
	1280 x 720p@60 Hz	1920 x 1080p@25Hz	
APPEARANCE	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 4-Channel VGA Input Card

Introduction

The AVCLink H series 4-channel VGA input card can directly receive external VGA input signals and process the external VGA video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel VGA format video signal inputs, with a maximum resolution of 1920x1200p@60Hz. It also supports independent audio input, accepting YPbPr and CVBS signals via adapters. It automatically detects dynamic switching between various resolutions and performs image resolution conversion and optimization on the input signals to achieve the desired viewing effect.



Features

- Supports input resolutions up to 1920x1200@60Hz
- Automatically detect resolution changes
- Supports automatic image adjustment
- Supports adjustment of red, green, and blue colors, as well as brightness and contrast
- A single card supports 4-channel input
- Support EDID management
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION			
INPUT INTERFACE	15-pin D-sub interface x4			
INPUT SIGNAL	RGBHV/CVBS/YPbPr signals			
PERFORMANCE	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	
	Input channels	4		
	Power	20W		
Temperature	0–50°C (operating), -55–70°C (storage)			
Humidity	10%–80% (operating), 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 800@60Hz 1280 x 768@60Hz 1280 x 768@75Hz 1280 x 768@85Hz 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	Interface	3.5mm audio jack		
	Input voltage	Vpp: 2.8V		
	Sampling rate	48 kHz		



APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel CVBS Input Card

Introduction

The AVCLink H-series 4-channel CVBS input card can directly receive external CVBS signals and process the externally input CVBS video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel CVBS format video signal input, with a maximum resolution of 720x480@60Hz (NTSC)/720x576@50Hz (PAL), and also supports independent audio input.



Features

- Supports NTSC/PAL/SECAM adaptive standards
- Supports adjustment of brightness, chroma, contrast, grayscale, and saturation
- A single card supports 4-channel inputs
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	BNC interface x4	
PERFORMANCE	Input signal	CVBS
	Signal level	1.0 Vpp
	Impedance	75Ω
	Transmission rate max	6.48Gbps
	Input channels	4
	Power	20W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
INPUT RESOLUTION	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	
AUDIO	Interface	3.5mm audio jack
	Input voltage	Vpp: 2.8V
	Sampling rate	48kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel YPBPR Input Card

Introduction

The AVCLink H-series 4-channel YPbPr input card is suitable for acquiring component video signals. Component video signals provide a better video signal than composite video signals. Component video signals are typically transmitted using color video components. This card supports YPbPr color video component signal input via an adapter and allows for manual adjustment of the input signal.



Features

- Supports NTSC/PAL adaptive mode
- Supports adjustment of brightness, chroma, contrast, grayscale, and saturation
- A single card supports 4-channel input
- Can be configured on-site, plug and play
- Supports signal preview
- Supports input label scaling to 2x, 4x, and 8x
- When there is no signal input, a preset color (blue screen) will be displayed

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
INPUT INTERFACE	15-pin D-sub interface x4	
PERFORMANCE	Input signal	YPbPr
	Signal level	Y-1.0Vpp PbPr-0.7Vpp
	Impedance	75Ω
	Input channel	4
	Power	20W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack x 4
	Input voltage	Vpp: 2.8V
	Sampling rate	48kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)
INPUT RESOLUTION	480i /576i /480P /576P /720P25 /720P30 /720P50 /720P60 /1080i50 /1080i60 /1080P50 /1080P60 /1080P24 /1080P25 /1080P30	



AVCLink H Series 4-Channel VIDEO Input Card

Introduction

The AVCLink H series 4-channel VIDEO input card supports VGA/CVBS/ YPbPr signal input via adapters, and processes externally input video and audio signals before sending them to the processor for transmission and processing. A single card supports up to 4-channel video signal inputs, with a maximum resolution of 720x480@60Hz(NTSC)/720x576@50Hz(PAL), and supports independent audio input.



Features

- Supports NTSC/PAL /SECAM adaptive standards
- Supports adjustment of brightness, chroma, contrast, grayscale, and saturation
- A single card supports 4-channel input
- Can be configured on-site, plug and play
- Supports signal preview

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.



Parameters

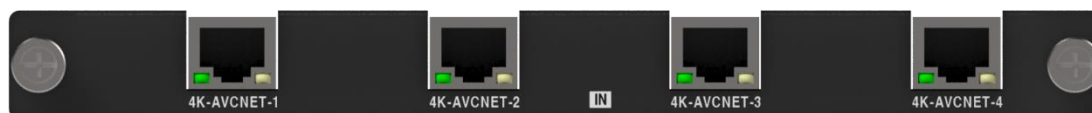
TYPE	DESCRIPTION			
INPUT INTERFACE	15-pin D-sub interface x4			
INPUT SIGNAL	RGBHV/CVBS/YPbPr signals			
PERFORMANCE	Signal level	RGBHV	0.7Vp-p	
		CVBS	1.0 Vp-p	
		Y	1.0 Vp-p	
		Pb/Pr	0.7 Vp-p	
	Impedance	RGBHV	75Ω	
		CVBS	75Ω	
		Y /Pb/Pr	75Ω	
	Input channel	4		
	Power	20W		
Temperature	0–50°C (operating), -55–70°C (storage)			
Humidity	10%–80% (operating), 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	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)	1400 x 1050@59Hz
		800 x 600@56Hz	1280 x 720@25Hz	1400 x 1050@60Hz
		800 x 600@60Hz	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 (Reduce Blanking)	1280 x 800@75Hz	1680 x 1050@59Hz
		848 x 480@60Hz (CVT)	1280 x 800@85Hz	1680 x 1050@60Hz
		848 x 480@60Hz (MAC)	1280 x 960@60Hz	(Reduce Blanking)
		864 x 648@60Hz	1280 x 960@75Hz	1680 x 1050@60Hz
		640 x 350@70Hz	1280 x 960@85Hz	1680 x 1050@75Hz
		640 x 350@85Hz	1280 x 1024@59Hz	1920 x 1080@50Hz
		640 x 400@70Hz	1280 x 1024@60Hz	1920 x 1080@60Hz
		720 x 400@70Hz	1280 x 1024@70Hz (NCD)	(Reduce Blanking)
		640 x 350@85Hz	1280 x 1024@72Hz (HP)	1920 x 1080@60Hz
		720 x 350@85Hz	1280 x 1024@75Hz	1920 x 1200@50Hz
		640 x 400@85Hz	1280 x 1024@76Hz (SUN)	1920 x 1200@60Hz
640 x 400@85Hz	1280 x 1024@85Hz			
AUDIO	Interface	3.5mm audio jack x4		
	Input voltage	Vpp: 2.8V		
	Sampling rate	48 kHz		
APPEARANCE	Card type	Blade card		
	Net weight	0.3 kg		
	Dimensions	203(l)x224(w)x21(h) (mm)		



AVCLink H Series 4-Channel 4K Lossless Decoding Card

Introduction

The AVCLink H series 4-channel 4K lossless decoding card can receive external AVCN lightly compressed encoded signals and process the decoded video and audio signals before sending them to the processor for transmission and processing. Each card has 4 interfaces, supporting 4-channel 3840x2160@30Hz decoding. This decoding card uses our internal algorithm to achieve network transmission of video with light compression, while maintaining superior clarity and real-time performance.



Video Format

This card uses an internal algorithm and needs to be used in conjunction with an encoding device that uses the same algorithm.

Decoding Capability

The card has a total of 4 network ports, each of which can support a maximum signal input of 3840x2160@30Hz.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
IP ADDRESS	The default IP address is: 192.168.1.203	
INPUT INTERFACE	RJ45 interfaces x4	Fixed 1G speed
PERFORMANCE	Interfaces	4
	Power consumption	26W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 2-Channel H265-4K-IP Decoding Card

Introduction

The AVCLink H series 2-channel H.265-4K-IP decoding card can directly receive external H.265/H.264 format encoded signals, process the externally input video and audio signals, and send them to the processor for transmission and processing. Each card has 2 interfaces and 2 channels, with each interface capable of decoding up to 32-channel 1280x720@30 signals, 16-channel 1920x1080@30 signals, 8-channel 1920x1080@60 signals, or 4-channel 3840x2160@30 signals, supporting embedded audio. Each channel supports single-view, quad-view, nine-view, and sixteen-view screen output, with a maximum output resolution of 3840x2160@30Hz.



Indicators

INDICATOR	DESCRIPTION
RUN	Under normal operating conditions, the indicator light flashes.
LINK 1	It remains lit during normal operation.
LINK 2	It remains lit during normal operation.

Video Format

Supported video sources are:

- Security network cameras (H.264/RTSP/RTP): Supports network cameras from mainstream manufacturers, such as Hikvision, Dahua, Axis Communications, Intech, and Kingmax.
- Security media services: Supports access to all series of security devices from Hikvision, Dahua, and Hanbang;
- Encoding boxes, encoding cards;
- DigiBird's full range of H.264/H.256 format encoding devices.



Decoding Capability

The card has two RJ45 network ports, each with one decoding channel, and the working mode of each channel can be set independently.

The decoding format for each channel (i.e., each network port) in different operating modes is as follows:

WORK MODE	DECODING CAPABILITY	OUTPUT FORMAT
SINGLE-VIEW	Supports decoding of up to one 4000x3000@25 (or 3840x2160@30) signal.	Single-screen display, supports 4K screen pixel-to-pixel display
QUAD-VIEW	Supports decoding of up to 4-channel 3840x2160@30 signals.	Four-in-one display, supports 4K screen pixel-to-pixel display
NINE-VIEW	Supports decoding of up to 9-channel 1920x1080@30 signals.	Nine-in-one display, supports 4K screen pixel-to-pixel display
SIXTEEN-VIEW	Supports decoding of up to 16-channel 1920x1080@30 signals.	Sixteen-in-one display, supports 4K screen pixel-to-pixel display

The maximum decoding capability of each card is:

Decodes 2-channel of 4000x3000@25 (or 3840x2160@30) signals, or 8-channel of 3840x2160@30 signals, or 32-channel of 1920x1080@30 signals.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
IP ADDRESS	The default IP address is: 192.168.1.203	
INPUT INTERFACE	RJ45 interface	10M/ 100M/1000M adaptive
PERFORMANCE	Interfaces	2
	Power	30W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 2-Channel H265 IP Decoding Card

Introduction

The AVCLink H series 2-channel H.265-IP decoding card can directly receive external H.265/H.264 format encoded signals, process the externally input video and audio signals, and send them to the processor for transmission and processing. Each card has 2 interfaces and 4 channels, with each interface capable of decoding up to 32-channel 1280x720@30 signals, 16-channel 1920x1080@30 signals, 8-channel 1920x1080@60 signals, or 4-channel 3840x2160@30 signals. Embedded audio input is also supported. Each channel supports single-view, four-view, nine-view, and sixteen-view screen output, with a maximum output resolution of 1920x1080@60 Hz.



Indicators

INDICATOR	DESCRIPTION
RUN	Under normal operating conditions, the indicator light flashes.
LINK 1	It remains lit during normal operation.
LINK 2	It remains lit during normal operation.

Video Format

Supported video sources are:

- Security network cameras (H.264/RTSP/RTP): Supports network cameras from mainstream manufacturers, such as Hikvision, Dahua, Axis Communications, ITARGE, and SANTACHI;
- Security media services: Supports access to all series of security devices from Hikvision, Dahua, and Hanbang;
- Encoding boxes, encoding cards;
- DigiBird offers a full range of H.264/H.256 format encoding devices.



Decoding Capability

Each card has two RJ45 network ports, each with two decoding channels, and the working mode of each channel can be set independently (1/4/9/16-view screen).

The decoding and output formats for each channel in different operating modes are as follows:

WORK MODE	DECODING CAPABILITY	OUTPUT FORMAT
SINGLE-VIEW	Supports decoding of up to 1-channel 4000x3000@25 (or 3840x2160@30) signal.	Single screen, 1080P60 output
QUAD-VIEW	Supports decoding of up to 4-channel 3840x2160@30 signals.	Four-in-one display, 1080P60 output
NINE-VIEW	Supports decoding of up to 9-channel 1920x1080@30 signals.	Nine-in-one image, 1080P60 output
SIXTEEN-VIEW	Supports decoding of up to 16-channel 1920x1080@30 signals.	Sixteen-in-one image, 1080P60 output

The maximum decoding capability and corresponding configuration method for each network port are as follows:

Max Decoding	Example
4-channel 4000x3000@25 / 3840x2160@30	Configure one channel of this network port as a 4-view mode to decode 4-channel 3840x2160@30; the other channel is unused and can be left idle.
8-channel 1920x1080@60	Configure the two channels of this network port into a 4-view mode, with each channel decoding 4-channel 1920x1080@60 signals.
16-channel 1920x1080@30	Configure one channel of this network port to 16-view mode to decode 16-channel 1920x1080@30 signals; the other channel is unused and can be left idle.
32-channel 1280x720@30	Configure both decoding channels of this network port to 16-view mode, with each channel decoding 16-channel 1280x720@30 signals.

The maximum decoding capability of a single card is:

8-channel 3840x2160@30 signal, or 16-channel 1920x1080@60 signal, or 32-channel 1920x1080@30 signal, or 64-channel 1280x720@30 signal.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the input card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
IP ADDRESS	The default IP address is: 192.168.1.203	
INPUT INTERFACE	RJ45 interface	10M/ 100M/1000M adaptive
PERFORMANCE	Interfaces	2
	Power	25W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)

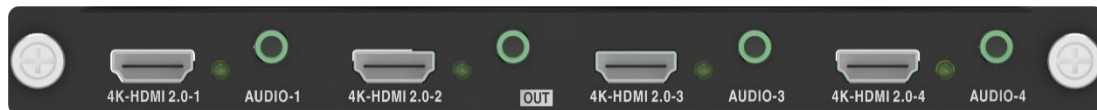


Output Card

AVCLink H Series 4-Channel 4K60-HDMI Output Card

Introduction

The AVCLink H series 4-channel 4K60-HDMI output card supports up to 4-channel HDMI video signal outputs, with a maximum resolution of 4096x2160@60Hz. It supports embedded audio and 3.5mm independent audio output. It supports the HDMI 2.0 protocol, is applicable to the DVI 1.0 protocol, and supports HDCP verification.



Features

- Supports HDCP 2.2 protocol
- Supports standard HDMI output, with a maximum resolution of 4096x2160@60Hz
- The card supports 4 output interfaces
- Multi-channel image synchronous output
- Configurable on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

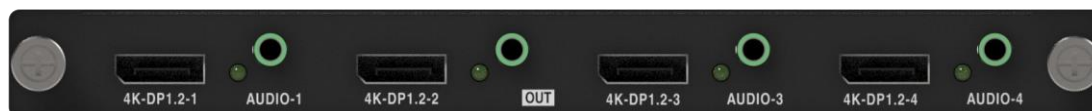
TYPE	DESCRIPTION	
OUTPUT INTERFACE	HDMI Type-A ports x4	
PERFORMANCE	Output signal	HDMI 2.0
	Signal level	Vdiff: 150 mV–1200 mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	3840x2160
	Frame rate	The maximum frame rate is 60 frames per second at 4096x2160 resolution.
	Transmission rate max.	18.6Gbps
	Output channels max.	4
	Power	56W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack
	Output voltage	Vpp: 2.8V
	Sampling rate	48kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 4K60-DP Output Card

Introduction

The AVCLink H series 4-channel 4K 60-DP output card supports 4-channel DP format video signal output, embedded audio, and independent audio output, with a maximum resolution of 4096x2160@60Hz. It supports the DP 1.2 protocol and HDCP verification.



Features

- Supports DP 1.2 protocol, maximum support for 4096x2160@60Hz signals
- Supports HDCP 2.2 and HDCP 1.4 authentication
- The card supports 4 output interfaces
- Multi-channel image synchronous output
- Configurable on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	DP standard interface x4	
PERFORMANCE	Output signal	DP 1.2
	Signal level	Vdiff: 130 mV–1300 mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	4096x2160
	Frame rate	The maximum frame rate is 60 frames per second at 4096x2160 resolution.
	Transmission rate max.	18.6Gbps
	Output channels max.	4
	Power	60W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack
	Output voltage	Vpp: 2.8V
	Sampling rate	48kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 12G-SDI Output Card

Introduction

The AVCLink H series 4-channel 12G-SDI output card supports up to 4-channel SDI format video signal output, with a maximum resolution of 3840x2160p@60Hz. It supports embedded and independent audio output. It features two 12G-SDI dual-optical transmitter module interfaces, each supporting the installation of a 12G-SDI dual-optical transmitter module, enabling two 12G-SDI signals to be transmitted over two optical fibers for long-distance transmission, and can be output to a splicing 12-SDI input card.



Features

- Supports 1G -SDI, 6G-SDI, 3G-SDI, HD-SDI, and SD-SDI output formats
- The single card supports 4 output interfaces
- Supports independent audio output
- Multi-channel image synchronous output
- Configurable on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

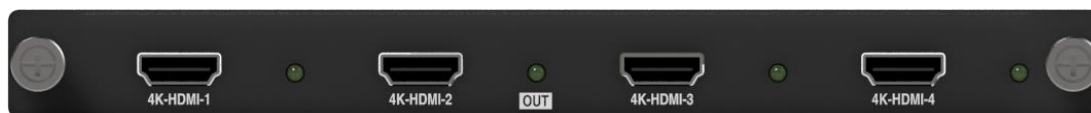
TYPE	DESCRIPTION		
OUTPUT INTERFACE	BNC interface x4		
PERFORMANCE	Output signal	SD/HD/3G SDI/6G SDI/12G SDI	
	Signal level	0.8 Vpp	
	Impedance	75Ω	
	Maximum resolution	3840x2160p	
	Frame rate	The maximum frame rate is 60 frames per second at 3840x2160p.	
	Transmission rate max.	12Gbps	
	Output channels max.	4	
	Power	60W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
OUTPUT RESOLUTION	3840 x 2160p@60hz 3840 x 2160p @30hz	1280 x 720p@50 Hz 1920 x 1080p@24 Hz 1920 x 1080p@25Hz	1920 x 1080p@30Hz 1920 x 1080p@50Hz 1920 x 1080p@60Hz
AUDIO	Interface	3.5mm audio jack	
	Output voltage	Vpp: 2.8V	
	Sampling rate	48kHz	
APPEARANCE	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 4-Channel 4K-HDMI Output Card

Introduction

The AVCLink H series 4-channel 4K HDMI output card supports up to 4-channel HDMI video signal outputs, with a maximum resolution of 3840x2160@30Hz. It supports the HDMI 1.4 protocol, is applicable to the DVI 1.0 protocol, and is HDCP verified.



Features

- Supports HDCP 1.4 protocol
- Supports standard HDMI output, with a maximum resolution of 3840x2160@30Hz
- The card supports 4 output interfaces
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis except the 26U. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	HDMI Type-A ports x4	
PERFORMANCE	Output signal	HDMI 1.4/DVI 1.0
	Signal level	Vdiff: 150 mV–1200 mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	3840x2160@30Hz
	Transmission rate max.	10.2Gbps
	Output channel max.	4
	Power	28W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 4K-DP Output Card

Introduction

The AVCLink H series 4-channel 4K-DP output card supports 4-channel DP format video signal output, embedded audio output, and a maximum resolution of 3840x2160@30Hz. It supports the DP 1.1 protocol and HDCP verification.



Features

- Supports DP 1.1 protocol, maximum supported signal resolution of 3840x2160@30Hz.
- Supports HDCP 1.4 verification
- The single card supports 4 output interfaces
- Multi-channel image synchronous output
- Configurable on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	DP standard interface x4	
PERFORMANCE	Output signal	DP 1.1
	Signal level	Vdiff: 130 mV–1300 mV
	Impedance	Zdiff: 100Ω
	Maximum resolution	3840x2160
	Frame rate	The maximum frame rate is 30 frames per second at 3840x2160 resolution.
	Transmission rate max.	10.2Gbps
	Output channel max.	4
	Power	25W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel 4K-HDBaseT Output Card

Introduction

The AVCLink H-series 4-channel 4K-HDBaseT output card can transmit HDBaseT signals, solving the inconvenience caused by short transmission distances in traditional DVI and other cables during installation and wiring. This card has a built-in HDBaseT transmitter chip and requires other devices with built-in HDBaseT receiver chips for use.



Features

- Supports HDCP 1.4 protocol
- Supports standard HDMI output, with a maximum resolution of 3840x2160@30Hz
- Multi-channel image synchronous output
- Supports POE Power supply function
- Configurable on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	RJ45 interface x4	
PERFORMANCE	RJ45 wiring sequence	Standard 568A or 568B
	Connection method	RJ45 straight-through cable connection
	Transmission distance	Maximum length 70 meters (Category 6 twisted pair cable)
	Supported resolutions	Maximum 3840x2160@30Hz
	Transmission rate max.	10.2Gbps
	POC power supply	Supports 12V/24V POE Power supply
	Power	30W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel Shared 4K-HDMI Output Card

Introduction

The AVCLink-H series 4-channel shared 4K-HDMI output card supports 4-channel HDMI signal output with a maximum signal resolution of 3840x2160@30Hz. It supports video wall processing function, with each card sharing 8 layers. Matrix mode and audio output are not currently supported.



Features

- A single card can open up to 8 windows. The resolution of the signal used for opening windows, whether it is 2K, 4K, or 4K60, does not affect the number of windows. The number of windows opened across the output ports within this card remains unchanged.
- Supports HDCP 1.4 verification
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	HDMI TYPE-A PORTS X4	
PERFORMANCE	Output signal	HDMI 1.4/DVI 1.0
	Signal level	V _{diff} : 150 MV–1200 MV
	Impedance	Z _{diff} : 100Ω
	Maximum resolution	3840x2160
	Frame rate	The maximum frame rate is 30 frames per second at 3840x2160 resolution.
	Transmission rate max.	10.2GBPS
	Output channel max.	4
	Power consumption	28w
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack x4
	Output voltage	V _{pp} : 3.2V
	Output impedance	200Ω
	Sampling rate	48 KHZ
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel Shared 4K-DP Output Card

Introduction

The AVCLink-H series 4-channel shared 4K-DP output card supports 4-channel DP signal output with a maximum signal resolution of 3840x2160@30Hz. It supports video wall processing function, with each card sharing 8 layers. Matrix mode and audio output are not currently supported.



Features

- A single card can open up to 8 windows. The resolution of the signal used for opening windows, whether it is 2K, 4K, or 4K60, does not affect the number of windows. The number of windows opened across output ports within this card remains unchanged.
- Supports HDCP 1.4 verification.
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H-series chassis. Note: The 26U chassis does not support 4K.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	DP standard interface x4	
PERFORMANCE	Output signal	DP 1.1
	Signal level	V _{DIFF} : 130 MV–1300 MV
	Impedance	Z _{DIFF} : 100Ω
	Maximum resolution	3840x2160
	Frame rate	The maximum frame rate is 30 frames per second at 3840x2160 resolution.
	Transmission rate max.	10.2GBPS
	Output channel max.	4
	Power consumption	25W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack x4
	Output voltage	VPP: 3.2V
	Output impedance	200Ω
	Sampling rate	48 KHZ
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel DVI Output Card

Introduction

The AVCLink H series 4-channel DVI output card supports 4-channel DVI format video signal output, with a maximum resolution of 1920x1080p@60Hz.



Features

- Supports any resolution below 1920x1080@60Hz
- A DVI-I connector, via a DVI-VGA adapter, can output a VGA signal
- The card supports 4 output interfaces
- Multi-channel image synchronous output
- Configurable on-site, plug and play
- Supports 4-channel 3.5mm audio output via a special cable

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	24+5 pin DVI-I interface x4 (VGA signal output can be achieved via adapter)	
PERFORMANCE	Output signal	DVI 1.0
	Signal level	Vdiff: 150 mV–1200 mV
	Impedance	Zdiff: 100Ω (DVI) Z: 75Ω (VGA)
	Maximum resolution	1920x1200
	Frame rate	The maximum frame rate is 60 frames per second at 1920x1200 resolution.
	Transmission rate max	4.95Gbps
	Output channel max	4
	Power	28W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	24+5 pin DVI-I interface x4 (requires external custom adapter cable)
	Input voltage	Vpp: 3.2V
	Output impedance	200Ω
	Sampling rate	48 kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel SDI Output Card

Introduction

The AVCLink H series 4-channel SDI output card supports up to 4-channel of SDI format video signal output, with a maximum resolution of 1920x1080p@60Hz.



Features

- Supports 3G-SDI, HD-SDI, and SD-SDI output formats.
- The single card supports 4 output interfaces
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION		
OUTPUT INTERFACE	BNC interface x4		
PERFORMANCE	Output signal	SD/HD/3G SDI	
	Signal level	0.8 Vpp	
	Impedance	75Ω	
	Maximum resolution	1920x1080	
	Frame rate	The maximum frame rate is 60 frames per second at 1920x1080 resolution.	
	Transmission rate max	3Gbps	
	Output channel max	4	
	Power	20W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
RESOLUTION	1280 x 720p@50 hz 1280 x 720p@60 hz	1920 x 1080p@24 Hz 1920 x 1080p@25Hz	1920 x 1080p@30Hz 1920 x 1080p@50Hz 1920 x 1080p@60Hz
APPEARANCE	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 4-Channel VGA Output Card

Introduction

The AVCLink H series 4-channel VGA output card supports 4-channel VGA format video signal output with a maximum resolution of 1920x1080@60Hz.



Features

- Supports output at any resolution below 1920x1080@60Hz
- One interface supports three signals: VGA, YPbPr, and CVBS.
- The single card supports 4 output interfaces
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION		
INTERFACE	15-pin D-sub interface x4		
SIGNAL	RGBHV/CVBS/YPbPr signals		
PERFORMANCE	Signal level	RGBHV	0.7VPP
		CVBS	1.0 VPP
		Y	1.0 VPP
		Pb/Pr	0.7 VPP
	Impedance	RGBHV	75Ω
		CVBS	75Ω
		Y Pb/Pr	75Ω
	Max. resolution	1920x1200	
	Frame rate	The maximum frame rate is 60 frames per second at 1920x1200 resolution.	
	Output channel max	4	
AUDIO	Power	26W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
	Interface	3.5mm audio jack x4	
APPEARANCE	Output voltage	Vpp: 3.2V	
	Output impedance	200Ω	
	Sampling rate	48 kHz	
	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 4-Channel CVBS Output Card

Introduction

The AVCLink H series 4-channel CVBS output card supports up to 4-channel of CVBS format video signal output, with a maximum resolution of 720x480@60Hz (NTSC) / 720x576@50Hz (PAL), and supports independent audio output.



Features

- Supports NTSC/PAL standards
- The single card supports 4 output interfaces
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
OUTPUT INTERFACE	BNC interface x4	
PERFORMANCE	Output signal	CVBS
	Signal level	1.0 Vpp
	Resolution max	720x480i 60Hz, NTSC / 720x576i 50Hz, PAL
	Frame rate	60Hz-NTSC/50Hz-PAL
	Impedance	75Ω
	Output channel max	4
	Power	25W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
AUDIO	Interface	3.5mm audio jack x4
	Output voltage	Vpp: 3.2V
	Output impedance	200Ω
	Sampling rate	48 kHz
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 4-Channel YPBPR Output Card

Introduction

The AVCLink H series 4-channel YPbPr output card converts various video signals from the processor into YPbPr signals using a high-precision analog-to-digital converter chip, which are then sent to the monitor or other input devices. This card can output 4-channel YPbPr signals via an adapter, supporting output resolutions up to 1920x1080@60Hz.



Features

- Supports output at any resolution below 1920x1080@60Hz
- Supports output of 4-channel YPbPr via adapter
- The single card supports 4 output interfaces
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION		
OUTPUT INTERFACE	15-pin D-sub interface x4		
OUTPUT SIGNAL	YPbPr signal		
PERFORMANCE	Signal level	Y Pb/Pr	1.0 VPP 0.7 VPP
	Impedance	Y Pb/Pr	75Ω
	Maximum resolution	1920x1080	
	Frame rate	The maximum frame rate is 60 frames per second at 1920x1080 resolution.	
	Output channel max	4	
	Power	26W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
AUDIO	Interface	3.5mm audio jack x4	
	Output voltage	Vpp: 3.2V	
	Output impedance	200Ω	
	Sampling rate	48 kHz	
APPEARANCE	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 4-Channel VIDEO Output Card

Introduction

The AVCLink H series 4-channel VIDEO output card supports up to 4-channel of VGA/CVBS/YpBPr format video signal output via adapters, with a maximum resolution of 720x480@60Hz (NTSC) / 720x576@50Hz (PAL), and supports independent audio output.



Features

- Supports NTSC/PAL standards
- The single card supports 4 output interfaces
- Multi-channel image synchronous output
- Can be configured on-site, plug and play

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.



Parameters

TYPE	DESCRIPTION		
OUTPUT INTERFACE	15-pin D-sub interface x4		
OUTPUT SIGNAL	RGBHV /CVBS /YPbPr signals		
PERFORMANCE	Signal level	RGBHV	0.7 VPP
		CVBS	1.0 VPP
		Y	1.0 VPP
		Pb/Pr	0.7 VPP
	Impedance	RGBHV	75Ω
		CVBS	75Ω
		Y Pb/Pr	75Ω
	Maximum resolution	1920x1200	
	Frame rate	The maximum frame rate is 60 frames per second at 1920x1200 resolution.	
	Output channel max	4	
AUDIO	Power	26W	
	Temperature	0–50°C (operating), -55–70°C (storage)	
	Humidity	10%–80% (operating), 10%–90% (storage)	
	Interface	3.5mm audio jack x4	
	Output voltage	Vpp: 3.2V	
APPEARANCE	Output impedance	200Ω	
	Sampling rate	48 kHz	
	Card type	Blade card	
	Net weight	0.3 kg	
	Dimensions	203(l)x224(w)x21(h) (mm)	



AVCLink H Series 1-Channel H265 IP Encoding Card

Introduction

The AVCLink H series 1-channel H 265 IP encoding card features one RJ45 interface, supports up to 4 channels of 1080P@60Hz signal encoding output, supports embedded audio output, supports working indicator lights, supports IP address modification, and supports online card upgrades.



Indicators

INDICATOR	DESCRIPTION
RUN	Under normal operating conditions, the indicator light flashes.
LINK 1	When the first encoded signal is drawn, the indicator light illuminates.
LINK 2	When the second encoded signal is drawn, the indicator light illuminates.
LINK 3	When the third encoded signal is drawn, the indicator light will illuminate.
LINK 4	When the fourth encoded signal is drawn, the indicator light will illuminate.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
IP ADDRESS	The default IP address is: 192.168.1.202	
PERFORMANCE	Network protocol	RTSP protocol
	Output channels	4-channel coded signal output
	Media services	Supports 10 media playback requests
VIDEO ENCODING	Encoding resolution	Main bitrate: 1920x1080–704x576 Secondary bitstream: 704x576/352x288
	Encoding format	H.265
	Coding complexity	Baseline/Main/High profile
	Frame rate	1-60 can be set
	I-frame interval	10-100 can be set
	Output bitrate	Main code stream 1M-12Mbps (265)/1–20Mbps (MJPEG) Auxiliary code stream 256K-1Mbps (265)/256K–4Mbps (MJPEG)
OPERATING PARAMETERS	Power	32W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



AVCLink H Series 1-Channel H264 IP Encoding Card

Introduction

The AVCLink H series 1-channel H.264 IP encoding card features one RJ45 interface, supports up to 4-channel of 1080p@60Hz signal encoding output, embedded audio output, working indicator lights, IP address modification, and online card upgrades.



Indicators

Indicator	DESCRIPTION
RUN	Under normal operating conditions, the indicator light flashes.
LINK 1	When the first encoded signal is drawn, the indicator light illuminates.
LINK 2	When the second encoded signal is drawn, the indicator light illuminates.
LINK 3	When the third encoded signal is drawn, the indicator light will illuminate.
LINK 4	When the fourth encoded signal is drawn, the indicator light will illuminate.

Requirements

ITEM	DESCRIPTION
SOFTWARE	Applicable to the Darwin Matrix control system. For detailed software operation instructions, please refer to the User Manual.
HARDWARE	Applicable to all AVCLink H series chassis.
POSITION	This card can be installed in any service card slot of a 2U/4U/8U/enhanced 15U/32U chassis, or in the output card slot of a 15U/26U/36U chassis.

Parameters

TYPE	DESCRIPTION	
IP ADDRESS	The default IP address is: 192.168.1.202	
PERFORMANCE	Network protocol	RTSP protocol
	Output channels	4-channel coded signal output
	Media services	Supports 10 media playback requests
VIDEO ENCODING	Encoding resolution	Main bitrate: 1920x1080–704x576 Secondary bitstream: 704x576 / 352x288
	Encoding format	H.264
	Coding complexity	Baseline/Main/High profile
	Frame rate	1-60 can be set
	I-frame interval	10-100 can be set
	Output bitrate	Main stream 1M-12Mbps (264)/1–20Mbps (MJPEG)
		Secondary stream: 256K-1Mbps (264) / 256K–4Mbps (MJPEG)
OPERATING PARAMETERS	Power	32W
	Temperature	0–50°C (operating), -55–70°C (storage)
	Humidity	10%–80% (operating), 10%–90% (storage)
APPEARANCE	Card type	Blade card
	Net weight	0.3 kg
	Dimensions	203(l)x224(w)x21(h) (mm)



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