

# DS-C10S-S11(/S22/S41)/E

## Product Introduction

Designed with the newest system architecture, data switching and processing method, DS-C10S is a high-performance image processing device that can realize the integrated processing for multiple types of video streams and network data. As the core display control device, it is mainly used in Video-wall system for dynamic displaying videos on multiple display units simultaneously.

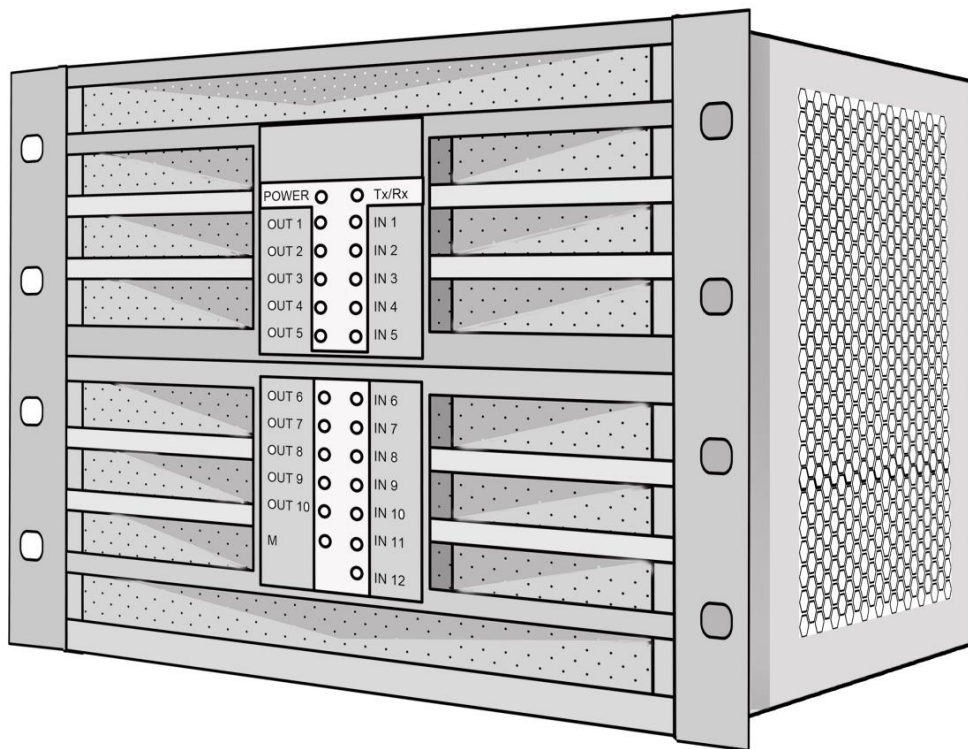


Figure 1. 1 Overview of C10S Series Controller

## Product Features

- A signal source can be displayed on the  $M \times N$  ( $M \geq 1, N \geq 1, M \times N \leq 72$ ) display units.
- Up to 8 kinds of signal sources are supported, including VGA, DVI, HDMI, BNC, SDI, YpbPr, Ultra HD and IP camera input.
- A single input board can display network signal of 2-ch@800W, 2-ch@600W, 2-ch@500W, 8-ch@1080P, 16-ch@720P and 32-ch@D1. And display lock record files.
- Support 1/4/9/16 multi-screen layout.
- Up to 6 image layers can be displayed on one screen, including one virtual LED image layer and a background layer. The LED font size, background color and moving type are adjustable. The resolution of background layer is up to 16384×8192.
- Users have the permission to manage the signal source and video wall.

- Provide dual link signal collection card whose input resolution is up to 4088×4088/15Hz.
- A build-in matrix feature for opening a signal source on several windows at the same time.
- Support cross-window video roaming.
- Support SADP searching active IP address.
- Restore default for the password of administration.
- Support adjusting the output to match the virtual output of client software with real output of controller.
- Support opening windows to display video signal for the purpose of adjusting signal.
- Up to 16 devices can be managed by a client server.
- Up to 4 virtual video walls can be displayed in a video wall.
- Remote control via IPAD client server and IE browser.
- Support opening windows to display video signal, with the window location and size adjustable

## Product Introduction

### Available Models

Model	Chassis	Main board	Description	Assembly
DS-C10S-S11/E	4U chassis	DS-C10S-MSU	Core display control module.	Main board, chassis, fan and power supply.
DS-C10S-S22/E	8U chassis			
DS-C10S-S41/E	13U chassis			

### Assembly Introduction

#### Input Module (Optional Module)

Model	Module	Description
DS-C10S-DI/4	DVI Input Board	4 DVI input connectors.
DS-C10S-DI/2		2 DVI input connectors.
DS-C10S-HDI/1	DVI Dual link Ultra-HD Input Board	1 DVI dual link input connector.
DS-C10S-HI/4	HDMI Input Board	4 HDMI input connectors. (The adaptor for switch HDMI to DVI is needed.)
DS-C10S-HI/2		2 HDMI input connectors. (The adaptor for switch HDMI to DVI is needed.)
DS-C10S-VI/4	VGA Input Board	4 VGA input connectors. (The adaptor for switch DVI to VGA is needed.)
DS-C10S-VI/2		2 VGA input connectors. (The adaptor for switch DVI to VGA is needed.)
DS-C10S-BI/8	BNC Input Board	8 BNC input connectors.
DS-C10S-SDI/4	SDI Input Board	4 SDI input connectors.
DS-C10S-YI/2	YPbPr Input Board	2 YPbPr input connectors.

Model	Module	Description
DS-C10S-SI	Network Decoding Board	Decode for network signal with resolution at 2@500W, 4@1080P, 8@720P or 16@D1.
DS-C10S-SI/E	Enhanced Network Decoding Board	Decode for network signal with resolution at 2@800W (low frame rate), 2@600W (full frame rate), 2@500W (full frame rate), 4@500W (low frame rate), 8@1080P, 16@720P or 32@D1.

#### Output Module (Optional Module)

Model	Module	Description
DS-C10S-VO/4	VGA Output Board	4 VGA output connectors. (The adaptor for switch DVI to VGA is needed.)
DS-C10S-VO/2		2 VGA output connectors. (The adaptor for switch DVI to VGA is needed.)
DS-C10S-DO/4	DVI Output Board	4 DVI output connectors.
DS-C10S-DO/2		2 DVI output connectors.
DS-C10S-SDO/4	SDI Output Board	4 SDI output connectors.

## 1.2 Specification

Module		DS-C10S-S11/E	DS-C10S-S22/E	DS-C10S-S41/E
<b>Hardware</b>	Slot No.	11 (6 × Input & 5 × Output)	22 (12 × input & 10 × output)	41 (23 × input & 18 × output)
<b>Motherboard (DS-C10S-MSU)</b>	Network	1; 10M/100M/1000M self-adaptive Ethernet interface		
	USB	1 × USB2.0 (Reserved)		
	RS-232	2		
<b>Network Decoding Board (DS-C10S-SI)</b>	Decoding Performance	2@5MP; 4@1080p; 8@720p; 16@D1.		
<b>Enhanced Network Decoding Board (DS-C10S-SI/E)</b>	Decoding Performance	2@800W (low frame rate), 2@600W (full frame rate), 2@500W (full frame rate), 8@1080P, 16@720P or 32@D1.		
<b>BNC Input Board (DS-C10S-BI)</b>	Input	8 × BNC interface; PAL/NTSC self-adaptive.		
<b>VGA Input Board (DS-C10S-VI)</b>	Input	4/2 × VGA interface		
	RGB Resolution	HD15 interface (DVI-HD15 adaptor is needed) 720P@60Hz, 1024×768@60Hz, 1024×768@75Hz, 1280×1024@60Hz, 1280×1024@75Hz, 1366×768@60Hz, 1400×1050@60Hz, 1080P@60Hz, UXGA@60Hz, 1920×1200@60Hz.		
<b>DVI Input Board (DS-C10S-DI)</b>	Input	4/2 × DVI interface		
	DVI Resolution	720P@50Hz, 720P@60Hz, 1024×768@60Hz, 1024×768@75Hz, 1280×1024@60Hz, 1280×1024@75Hz, 1366×768@60Hz, 1400×1050@60Hz, 1080P@50Hz, 1080P@60Hz, UXGA@60Hz, 1920×1200@60Hz.		
<b>DVI Dual Link</b>	Analog	2048×1536@30Hz, 2560×1440@30Hz, 2560×1600@30Hz, 2560×2048@30Hz,		

Module		DS-C10S-S11/E	DS-C10S-S22/E	DS-C10S-S41/E
<b>Input Board (DS-C10S-HDI/1)</b>	Signal Input	2800×2100@30Hz, 3072×2304@30Hz, 3840×2160@30Hz, 4088×4088@15Hz.		
	Resolution			
<b>HDMI Input Board (DS-C10S-HI)</b>	Input	4/2 × HDMI interface		
	DVI Resolution	720P@50Hz, 720P@60Hz, 1024×768@60Hz, 1024×768@75Hz, 1280×1024@60Hz, 1280×1024@75Hz, 1366×768@60Hz, 1400×1050@60Hz, 1080P@50Hz, 1080P@60Hz, UXGA@60Hz, 1920×1200@60Hz.		
<b>SDI Input Board (DS-C10S-SDI)</b>	Input	4 × BNC interface		
	SDI Analog Signal Input Resolution	720P@25Hz, 720P@30Hz, 720P@50Hz, 720P@60Hz, 1080P@25Hz, 1080P@30Hz, 1080I@50Hz, 1080I@60Hz.		
<b>YPbPr Input Board (DS-C10S-YI)</b>	Input	2 × RCA interface		
	Resolution	480I@60Hz, 480P@60Hz, 576I@50Hz, 576P@50Hz, 720P@50Hz, 720P@60Hz, 1080I@50Hz, 1080I@60Hz.		
<b>VGA Output Board (DS-C10S-VO)</b>	Output	4/2 × VGA interface		
	RGB Resolution	HD15 interface (DVI-HD15 adaptor needed); Resolution: 1024×768@60Hz, 1024×768@75Hz, 1360×768@60Hz, 1080P@60Hz, 1400*1050@60Hz, 1920×1200@60Hz, 720P@60Hz.		
<b>DVI Output Board (DS-C10S-DO)</b>	Output	4/2 × DVI interface		
	DVI Resolution	1024×768@60Hz, 1024×768@75Hz, 1360×768@60Hz, 1080P@60Hz, 1400*1050@60Hz, 1920×1200@60Hz, 720P@60Hz.		
<b>SDI Output Board (DS-C10S-SDO/4)</b>	Output	4 × BNC interface		
	SDI Resolution	720P@50Hz, 720P@60Hz, 1080P@50Hz, 1080P@60Hz, 1080I@50Hz, 1080I@60Hz.		
<b>Other</b>	Power Supply	200V AC, 50/60Hz		
		A build-in power supply	Build-in redundant power supply	
	Consumption	≤ 250W (full-loaded)	≤ 450W (full-loaded)	≤ 800W (full-loaded)
	Working Temperature	0 °C ~ 50 °C (32 F ~ 122 F)		
	Working Humidity	10 ~ 90% (non-condensing)		
	Chassis	Standard 4U chassis	Standard 8U chassis	Standard 13U chassis
	Dimension (D×H×W)	352×177×442.4 mm (13.9×7×17.4 inch)	352×354×442.4 mm (13.9×13.9×17.4 inch)	417×576.6×442.4mm (16.4×27.7×17.4 inch)
	Weight	20kg (full-loaded)	≤35kg (full-loaded)	≤50kg (full-loaded)