ES2 Specification

Sending Card Series

Version: v2.5
Release Date: April 2025

Revision History

Version Number	Summary of the revisions	Revision Date	Revised by
V 2.5	Optimize format content	2025.07.03	
V 2.4	Correction of size data	2021.11.18	
V 2.3	Modify the cover	2021.10.25	
V 2.2	Modify interface parameters	2021.07.15	
V 1.0	First version released	2017.06.01	

Overview

KYSTAR ES2 sending card is an important part of the LED master control system . It is used to receive data from computers and other devices and convert it into network signals for transmission to the receiving card . The ES2 sending card adopts the industry's top design technology and complies with international and industry standards.

Supports multiple power supply modes , making it more convenient to use .
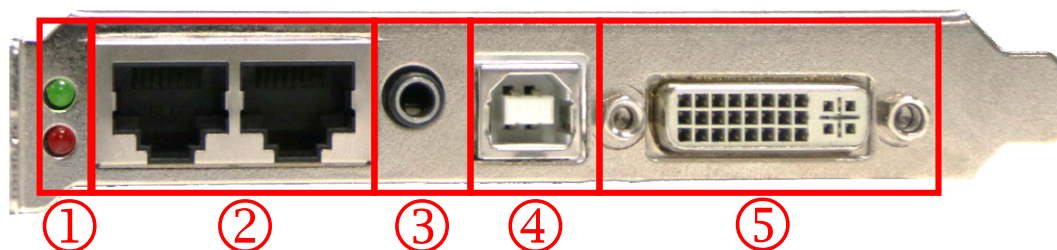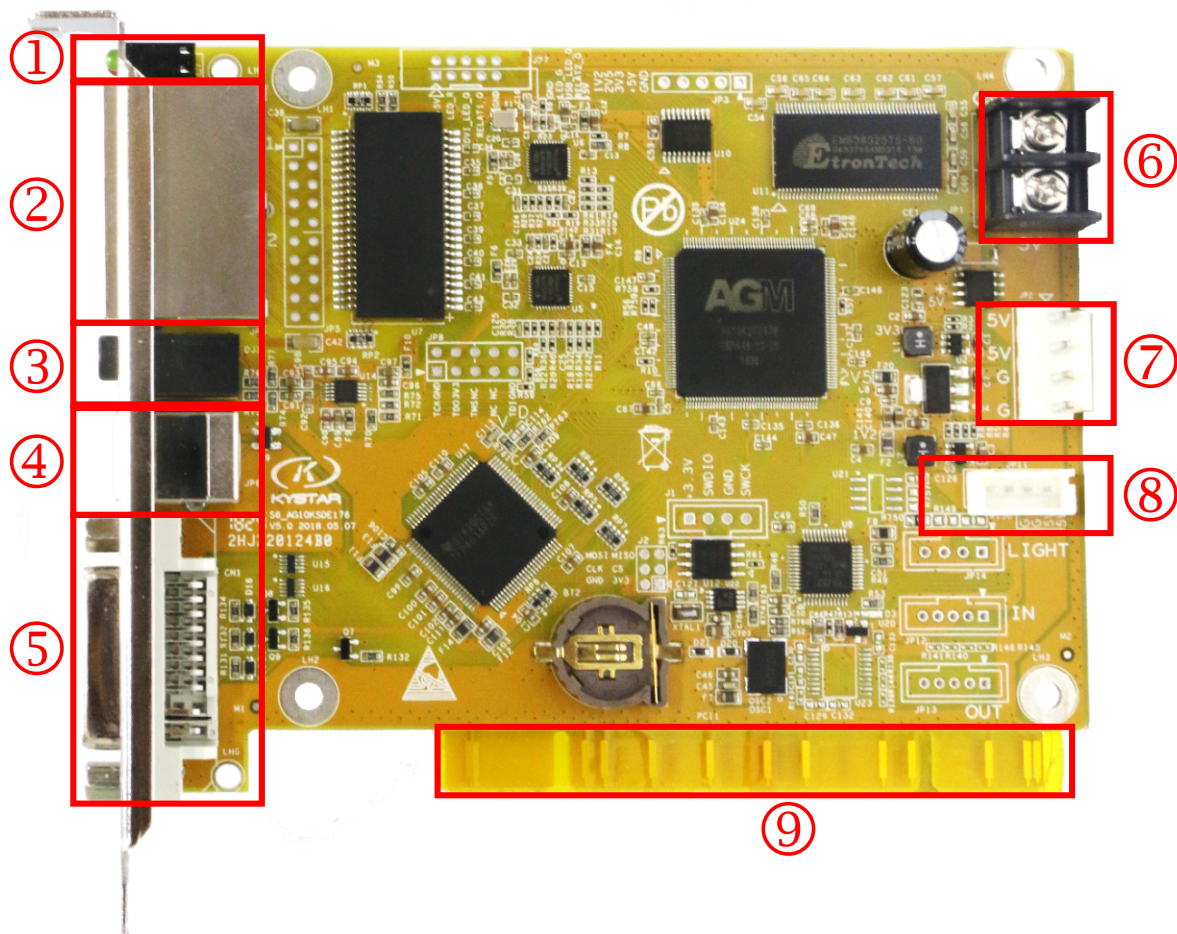
Product Certification

RoHS certification , CCC certification

Note: If the product has no relevant certification in any country or region, please contact Kystar immediately for confirmation or processing. Otherwise, if any legal risks are caused, the customer shall bear them by himself or Kystar shall have the right to seek compensation.

Features

- One DVI video input and dual network port output.

- One stereo audio input, used with a multi-function card to transmit audio.

- A single card can carry 1.31million pixels, and the aspect ratio can be set arbitrarily, with a maximum width of 4000 and a maximum height of 2000.

- Supports storage of backup data, enabling one-click repair.

- Support EDID management .

- Supports color restoration function.

- Supports power reverse connection protection function.

Panel Description

Serial Number	Functional Description
①	Sending card operation status indicator
②	Two Gigabit Ethernet ports, P1 and P2
③	Audio input interface

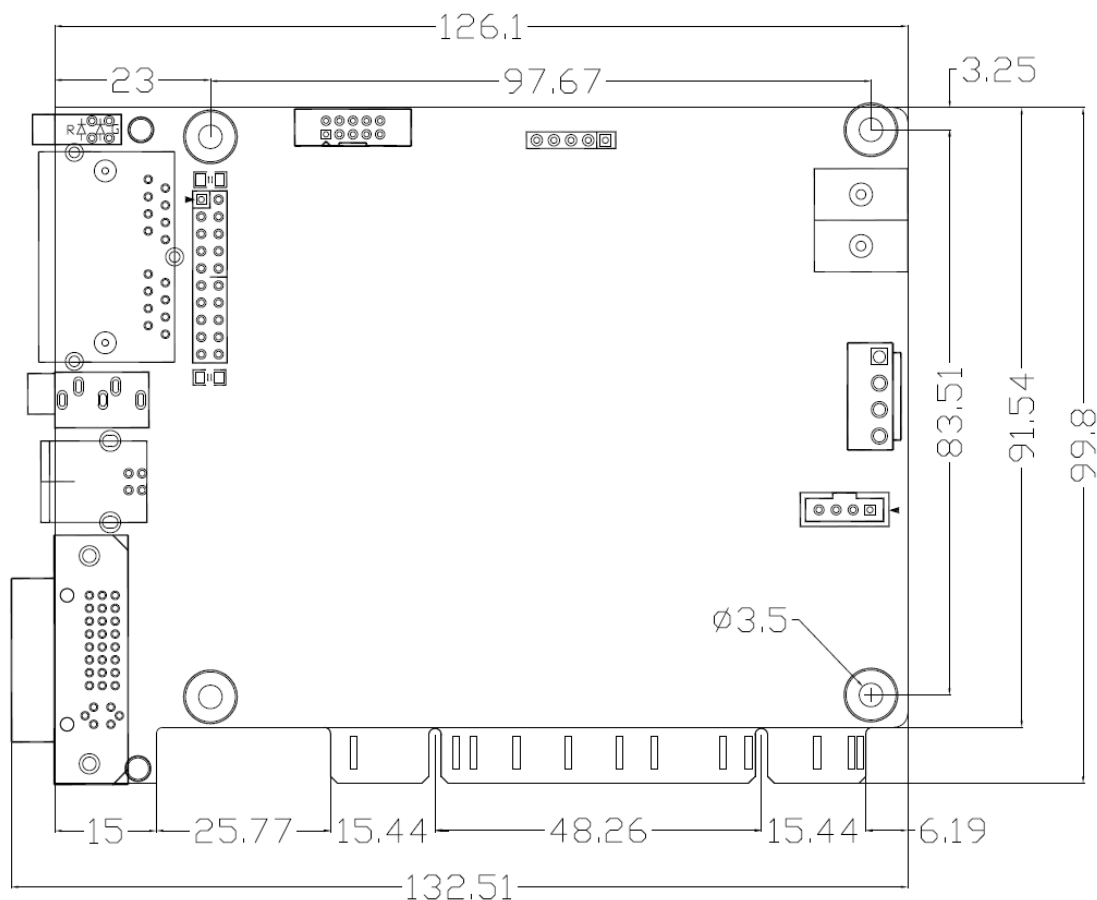|	
④	USB control terminal , used for PC host computer to control the sending card
⑤	DVI input interface
⑥	JP1 , 5 V plug-in terminal block, provides 5 V voltage
⑦	JP2 , 4P straight pin white socket, provides 5 V voltage
⑧	J1 1 , small 4P interface , provides 5V voltage
⑨	PCI slot , provides 5V voltage

Port Specifications

Input Port		
Type	QTY	Specification
DVI	1	DVI -D input , supports custom input resolution signal
Audio	1	3. 5 mm audio input interface

Output Port		
Type	QTY	Specification
LAN	2	Gigabit network output port, connected to receiving card

Control Port		
Type	QTY	Specification
USB (type -B)	1	USB control port, can use host computer software to control the sending card

J3-4P direct power supply interface definition			
Pins	1	2	3	4
Definition	VCC	VCC	GND	GND

Equipment Specifications

Equipment Specifications

Specification	
Input voltage	3.5V – 6V , 0.6A – 1.0A
Power consumption	6W
Operating temperature	0 ℃ -45℃
Operating humidity	10% - 95%, non-condensing
Storage temperature	-20℃- 75℃
Storage humidity	10% - 95%, non-condensing
Single unit specifications	132.5x99.8x18mm (L x W x H)
net weight	2.89KG
Carton size	257x223x47mm (L x W x H)
Gross Weight	0.3KG
Accessories	1xUSB cable 1xDVI cable, 1x certificate

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Beijing KystarTechnology Co., Ltd.

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