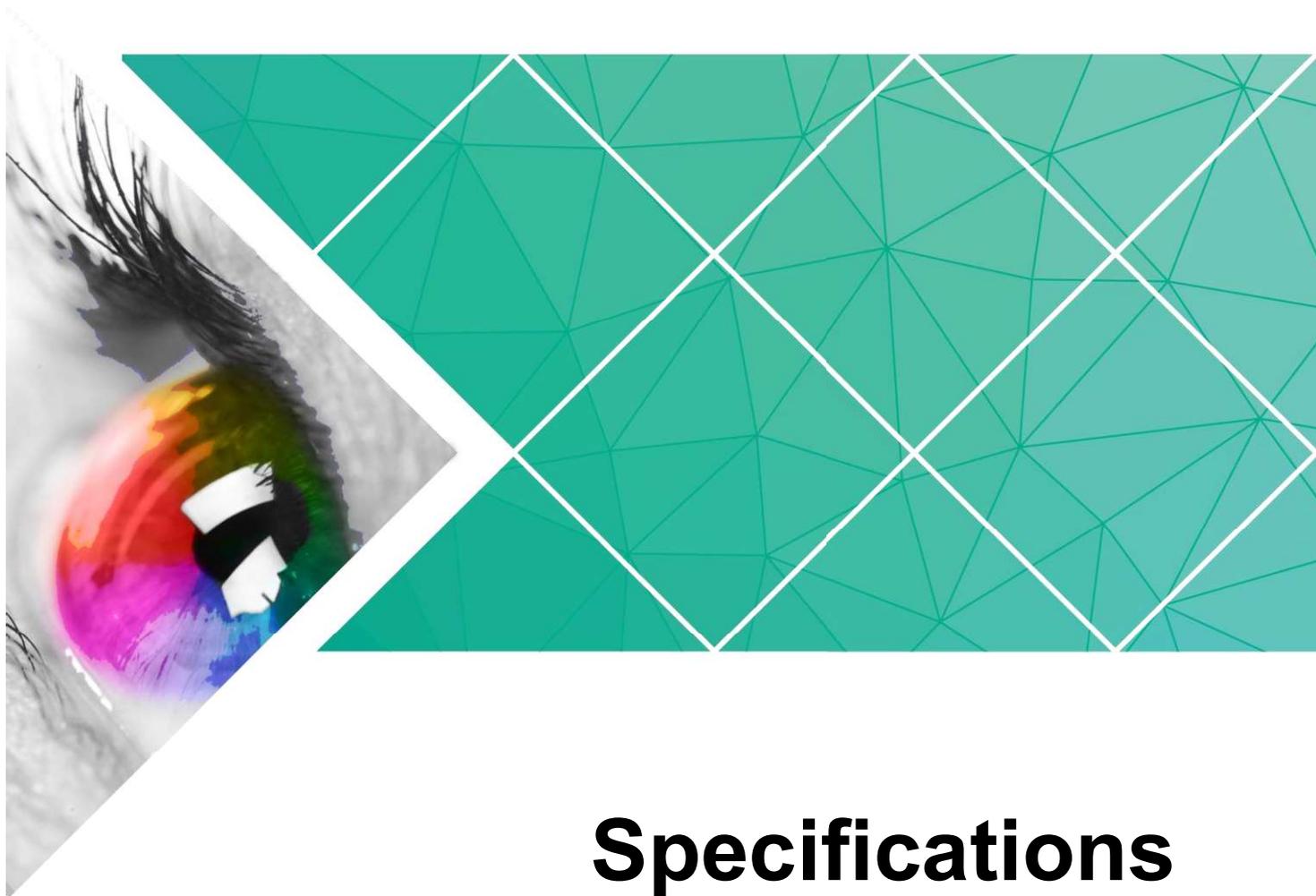


MSD300

Sending Card



Specifications

Document Version: V2.2.0

Document Number: NS110100679

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Change History

Version	Release Date	Description
V2.2.0	2019-03-13	Updated the document style. Optimized the document content.

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1 Overview

The MSD300 is an M3 series sending card from NovaStar. This sending card supports video and audio inputs, and can decode and process them before sending them to the LED screen via Ethernet port. A single MSD300 supports resolutions up to 1920×1200@60Hz. It communicates with the computer via USB port and is very convenient to use.

The MSD300 can be used for rental and fixed applications, such as live events, monitoring centers and various sports centers.

2 Features

2.1 Features

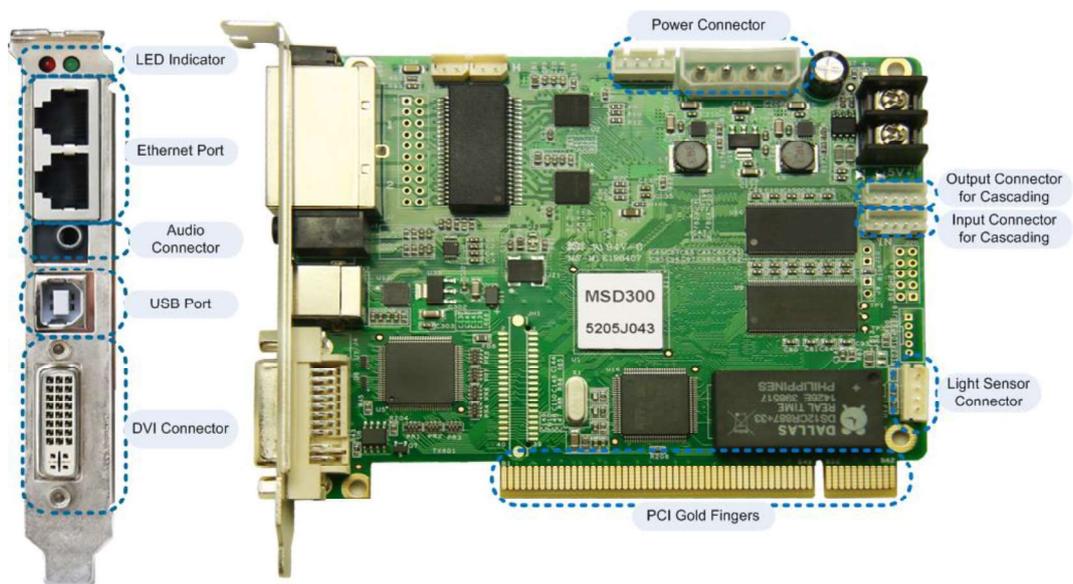
- 1 × DVI video input and 1 × audio input
- 2 × Gigabit Ethernet output
- 1 × light sensor connector
- Supports the new generation of pixel level calibration technology from NovaStar to provide a fast and efficient calibration process.
- Supports a variety of video formats, as shown in [Table 2-1](#).

2.2 Video Formats

Table 2-1 Video formats

Input Connector	Features		
	Bit Depth	Sampling Format	Maximum Input Resolution
DVI	8-bit	RGB 4:4:4	1920×1200@60Hz

3 Appearance

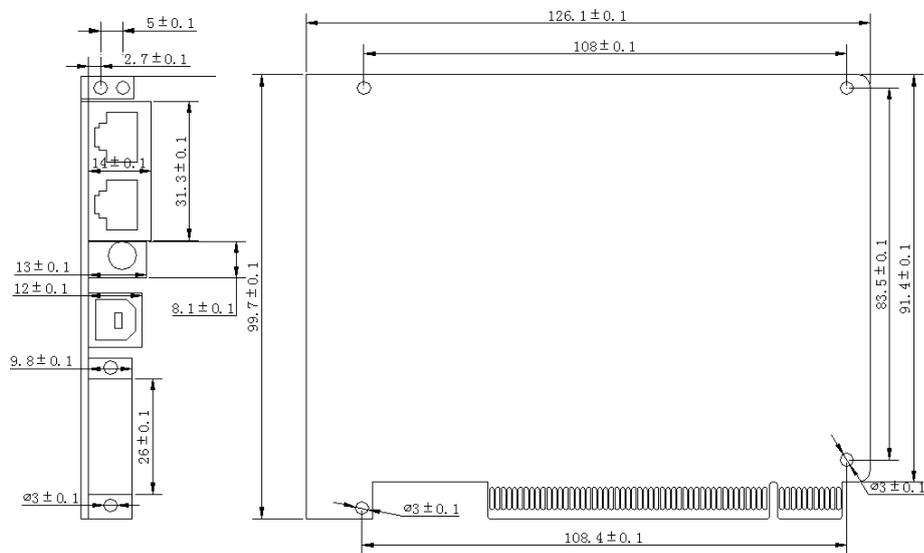


Note: Product pictures shown in this document are for illustration purpose only. Actual product may vary.

Indicator	
Red	Device operating indicator. Working status: <ul style="list-style-type: none"> • On: The power supply is normal. • Off: The power is not supplied or the power supply is abnormal.
Green	Device status indicator. Working status: <ul style="list-style-type: none"> • Slow flashing: Video input unavailable • Normal flashing: Video input available • Fast flashing: The screen is displaying the startup image. • Breathing: The Ethernet port redundancy has taken effect.
Input	
DVI×1	<ul style="list-style-type: none"> • Single-link DVI input connector • Supported maximum resolution: 1920×1200@60Hz, downward

	<p>compatible</p> <ul style="list-style-type: none"> Resolution customizable <p>Maximum width: 3840 pixels Maximum height: 1920 pixels</p>
AUDIO	Audio input connector
Output	
RJ45×2	<ul style="list-style-type: none"> 2 Gigabit Ethernet ports Maximum loading capacity of a single port: 650,000 pixels Supports redundancy between Ethernet ports.
Control	
USB (Type-B)	Connects to the PC.
UART IN/OUT	Input/Output connector for cascading devices
Function Connector	
LIGHT SENSOR	Connects to a light sensor to monitor ambient brightness, allowing for automatic brightness adjustment of LED display.
Power Supply	
DC 3.3V~5.5V	DC power connector

4 Dimensions



Unit: mm

5 Specifications

Electrical Parameters	Input voltage	DC 3.3 V–5.5 V
	Rated current	0.5 A
	Rated power consumption	2.5 W
Operating Environment	Temperature	-20°C–75°C
	Humidity	0% RH–90% RH, non-condensing
Dimensions	126.1 mm × 99.7 mm × 14.0 mm	
Net Weight	108.7 g	
Certifications	EMC, RoHS, PFOs, FCC	
Packing Information	Each unit is shipped with a carrying case and packing box. Packing rules: The product and accessories packed in the packing box and the packing box packed in the carrying case	
	Carrying case	335 mm × 190 mm × 62 mm Craft paper box printed with NOVASTAR One unit in each box Accessories: 1 × power cord, 1 × USB cable, 1 × DVI cable
	Packing box	400 mm × 365 mm × 355 mm Craft paper box printed with NOVASTAR

6 FCC Caution

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.