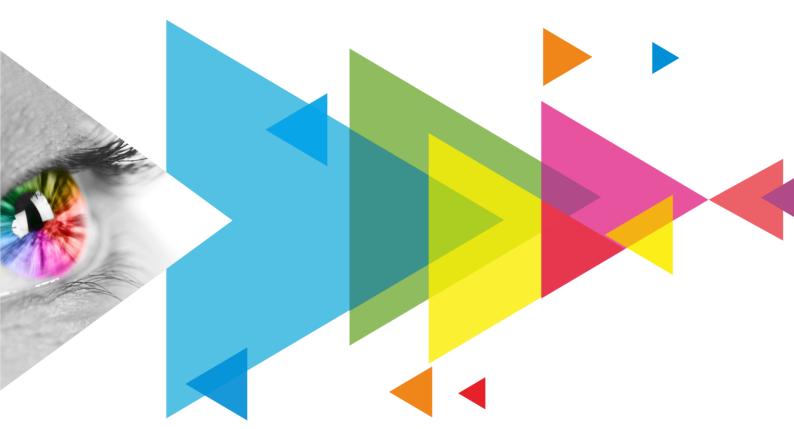


# **MON300**

**Monitoring Card** 



**Specifications** 



# **Change History**

Document Version	Release Date	Description
V2.2.0	2024-06-26	<ul><li>Added the certification related description.</li><li>Updated the appearance diagram.</li></ul>
V2.1.3	2021-02-06	Added the certification information.
V2.1.2	2020-07-01	<ul> <li>Added the product introduction.</li> <li>Added the net weight data.</li> <li>Updated product feature descriptions.</li> <li>Optimized the dimensions diagram style.</li> <li>Optimized the specifications table.</li> </ul>

# Introduction

The MON300 is a monitoring card designed for engineering projects and projects with high safety requirements. It works with the MRV320 and MRV560 receiving cards.

# **Certifications**

EMC, RoHS, PFOS

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact NovaStar to confirm or address the problem.

Otherwise, the customer shall be responsible for the legal risks caused or NovaStar has the right to claim compensation.

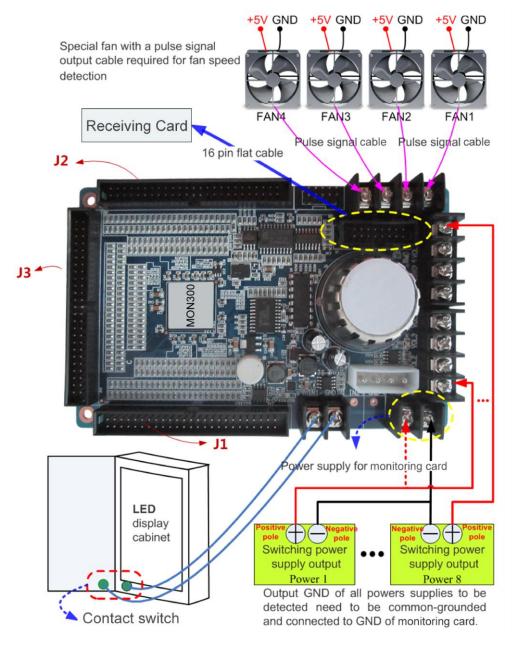
# **Features**

- Open circuit detection for each LED (The supporting driver IC and hub board required)
- Flat cable fault detection (The supporting hub board required)
- Cabinet temperature detection (No need to buy an extra module)
- Cabinet humidity detection (No need to buy an extra module)



- Voltage detection of 8 power supplies
- Speed detection of 4 fans
- Cabinet door open/close status detection

# **Appearance**

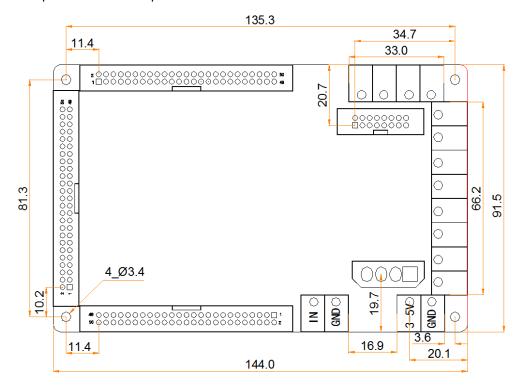


All product pictures shown in this document are for illustration purpose only. Actual product may vary.



# **Dimensions**

The board thickness is 1.6 mm, and the total thickness (board thickness + thickness of components on the top and bottom sides) is about 22.5 mm.



Tolerance: ±0.3 Unit: mm

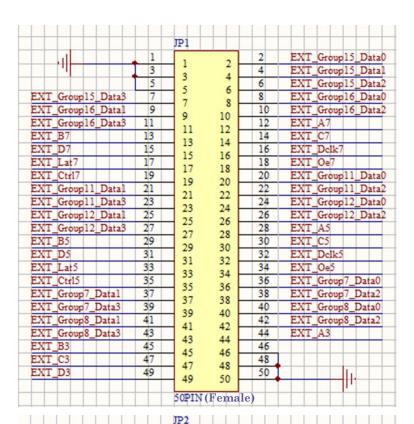


To make molds or trepan mounting holes, please contact NovaStar for a higher-precision structural drawing.



# **Pins**

### 16 Groups of Data

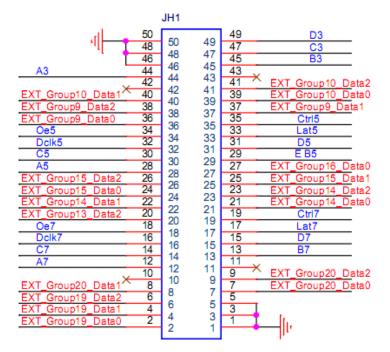


11	1	JP2		2	EXT_Group6_Data0
	3	1	2	4	EXT_Group6_Data1
	5	- 3	4	6	EXT_Group6_Data2
EXT_Group6_Data3	7	- 5	6	8	EXT A2
EXT B2	9	7	8	10	EXT C2
EXT D2	11	9	10	12	EXT Delk2
EXT Lat2	13	11	12	14	EXT Oe2
EXT_Ctrl2	15	13	14	16	EXT Group9 Data0
EXT_Group9_Data1	17	15	16	18	EXT_Group9_Data2
EXT_Group9_Data3	19	17	18	20	EXT_Group10_Data
EXT_Group10_Data1	21	19	20	22	EXT_Group10_Data
EXT_Group10_Data3	23	21	22	24	EXT_A4
EXT_B4	25	23	24	26	EXT_C4
EXT_D4	27	25	26	28	EXT_Delk4
EXT_Lat4	29	27	28	30	EXT_Oe4
EXT_Ctrl4	31	29	30	32	EXT_Group13_Data
EXT_Group13_Data1	33	31	32	34	EXT_Group13_Data
EXT_Group13_Data3	35	33	34	36	EXT_Group14_Data
EXT_Group14_Data1	37	35	36	38	EXT_Group14_Data
EXT_Group14_Data3	39	37	38	40	EXT_A6
EXT_B6	41	39	40	42	EXT_C6
EXT_D6	43	41	42	44	EXT_Delk6
EXT_Lat6	45	43	44	46	
EXT_Oe6	47	45	48	48	
EXT_Ctrl6	49	47	50	50	

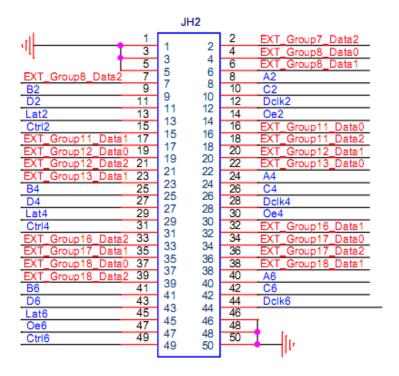


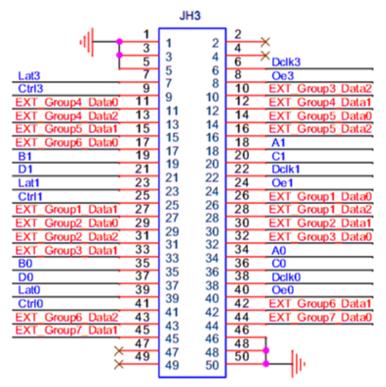
		JP3			
	1	1	2	2	
	3	3	4	4	
	5	5	6	6	EXT_Delk3
EXT_Lat3	7	7	8	8	EXT_Oe3
EXT_Ctrl3	9	ģ	10	10	EXT_Group3_Data0
EXT_Group3_Data1	11	11	12	12	EXT_Group3_Data2
EXT_Group3_Data3	13	13	14	14	EXT_Group4_Data0
EXT_Group4_Data1	15	15	16	16	EXT_Group4_Data2
EXT_Group4_Data3	17	17	18	18	EXT_A1
EXT_B1	19	19		20	EXT_C1
EXT_D1	21		20	22	EXT_Delk1
EXT_Lat1	23	21	24	24	EXT_Oel
EXT_Ctrl1	25	23		26	EXT_Group1_Data0
EXT_Groupl_Datal	27	25	26	28	EXT_Group1_Data2
EXT_Group1_Data3	29	27	30	30	EXT_Group2_Data0
EXT_Group2_Data1	31	29	32	32	EXT_Group2_Data2
EXT_Group2_Data3	33	33	34	34	EXT_A0
EXT_B0	35		36	36	EXT_C0
EXT_D0	37	35	38	38	EXT_Delk0
EXT_Lat0	39	7.0		40	EXT_Oe0
EXT_Ctrl0	41	39	40	42	EXT_Group5_Data0
EXT_Group5_Data1	43	41	42	44	EXT_Group5_Data2
EXT_Group5_Data3	45	43	44	46	
	47	45	46	48	
	49	47	48	50	
		49	50		<u> </u>

## 20 Groups of Data





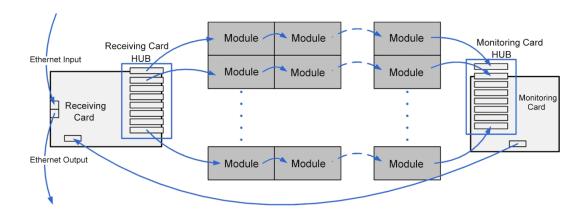




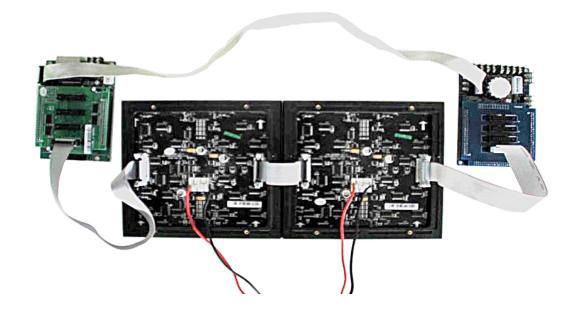


# **Connections**

### Illustration



# **Physical Connection Diagram**



# **Specifications**

Electrical Specifications	Rated voltage	DC 5.0 V	
	Rated current	0.15 A	
	Rated power consumption	0.75 W	
Operating Environment	Temperature	−20°C to 60°C	



of MON300	Humidity	0% RH to 95% RH, non-condensing
Operating Environment of Smoke Sensor	Temperature	-20°C to 60°C
	Humidity	0% RH to 60% RH, non-condensing
Physical Specifications	Dimensions	144.0 mm × 91.5 mm × 22.5 mm
	Net weight	115.7 g
Monitoring Indicators	Humidity	1% RH to 99% RH
	Smoke	FW HW < 0.7 Mev
	Voltage	0 V to 12 V



DO NOT apply the conformal coating to the MON300 surface, otherwise its humidity monitoring function may fail.



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