



Specifications

Monitoring Card MON300

Rev2.1.0 NS110100129

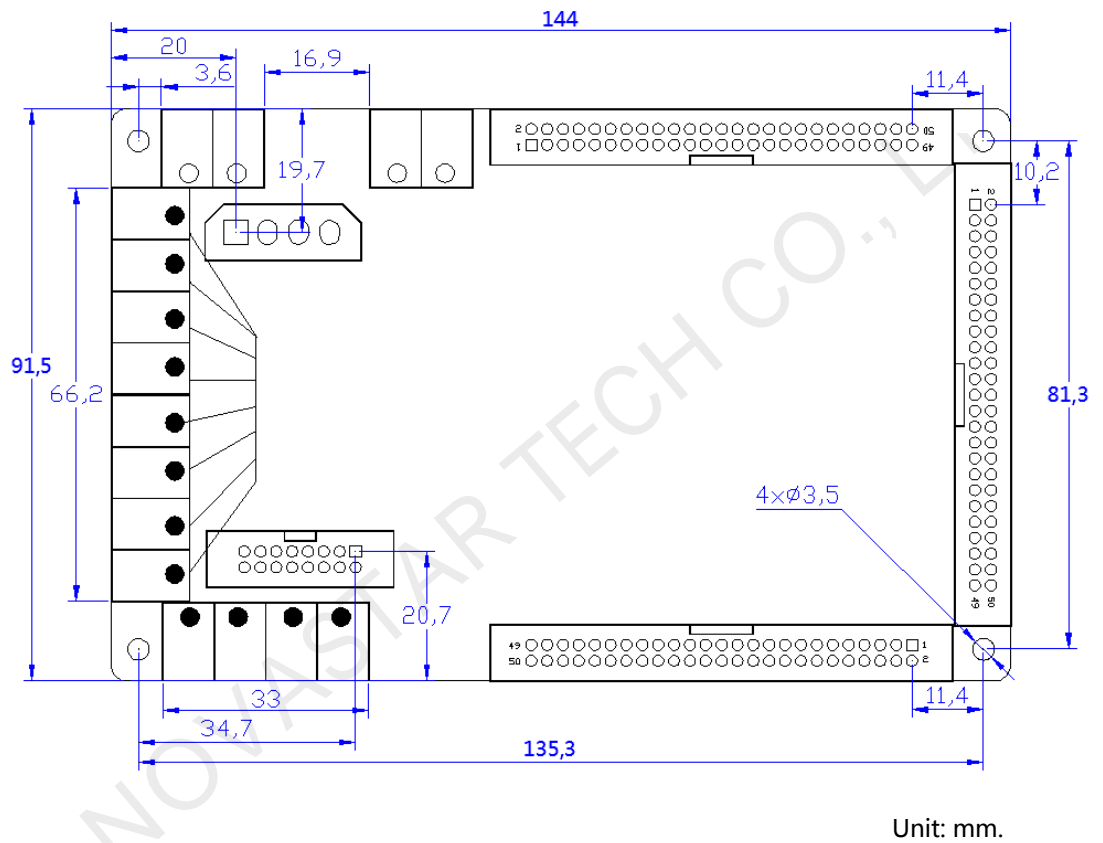
Features

Nova MON300 is a monitoring card designed specifically for engineering projects and projects with high requirements of safety. It has the following features:

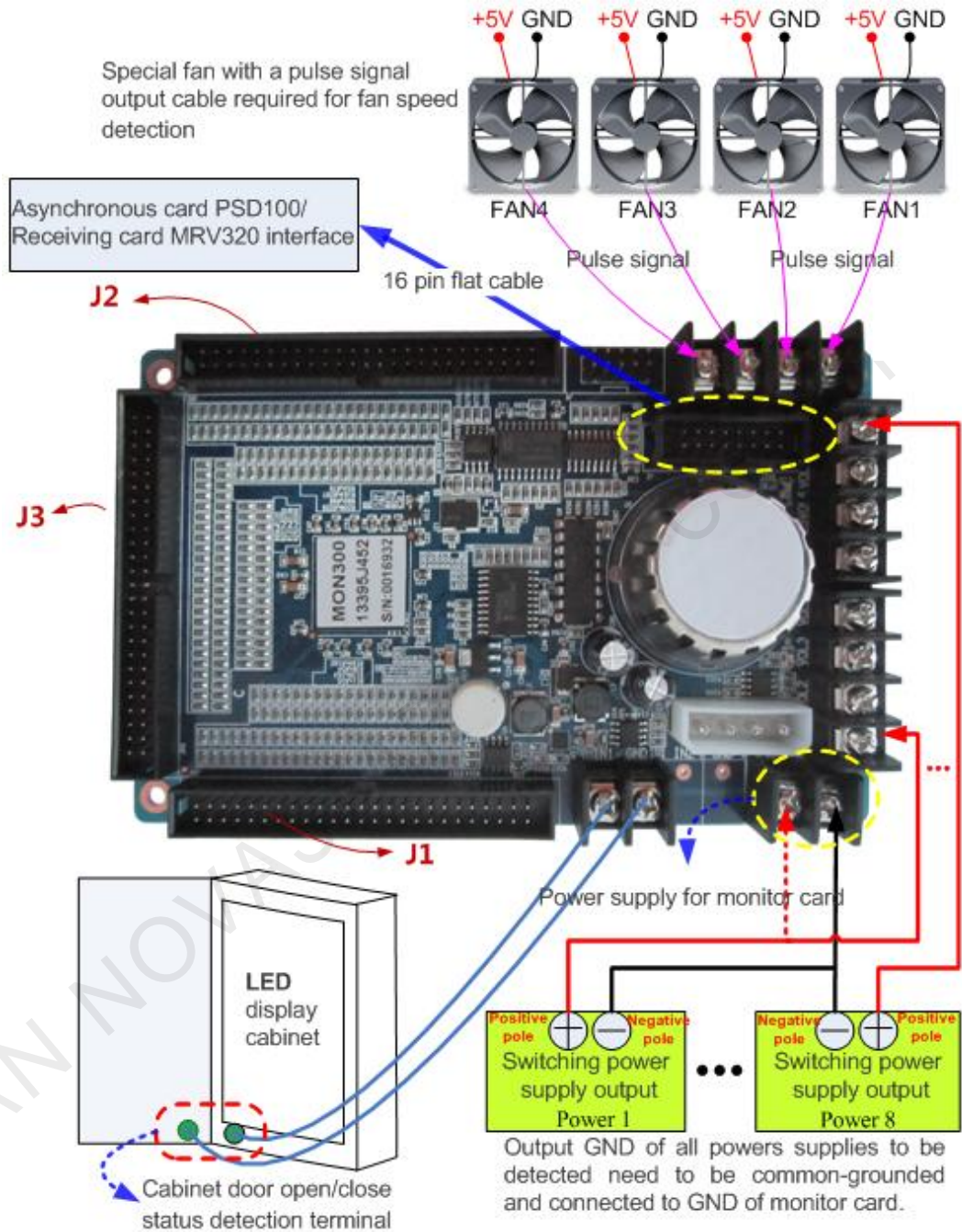
- 1) Used together with receiving card MRV320;
- 2) Supporting open and short circuit detection (drive IC support required);
- 3) Supporting flat cable fault detection;
- 4) Supporting cabinet humidity detection (no need to purchase extra module);
- 5) Supporting cabinet temperature detection (no need to purchase extra module);
- 6) Supporting 8-way power supply voltage detection;
- 7) Support 4-way fan speed detection;
- 8) Cabinet door open/close status detection supported;
- 9) Monitoring card HUB is required for LED status inspection or flat cable detection.

Dimensions

Thickness of the board is about 1.6mm. The overall thickness (board thickness + thickness of the components on front and back side) is about 22.5mm.



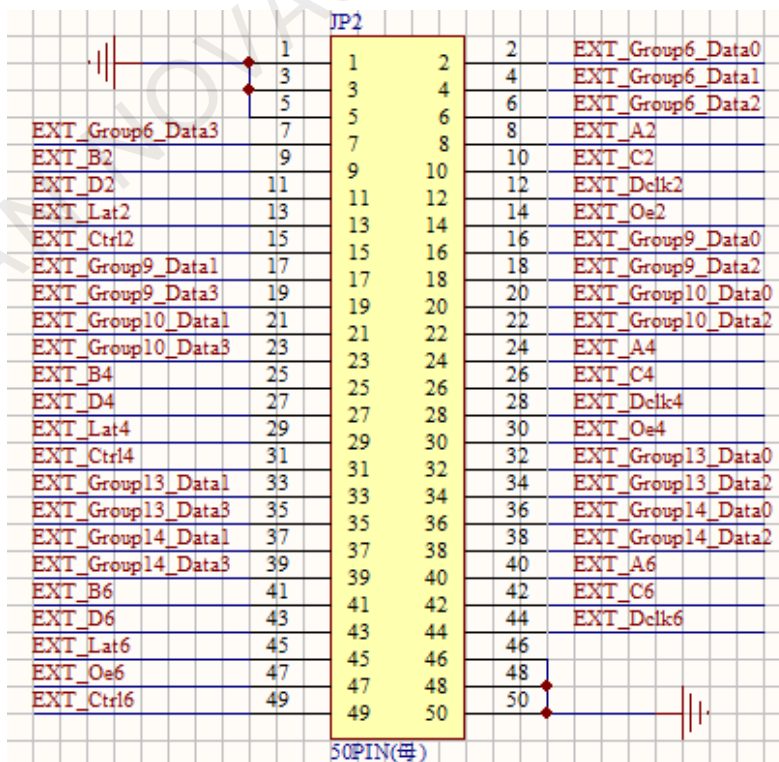
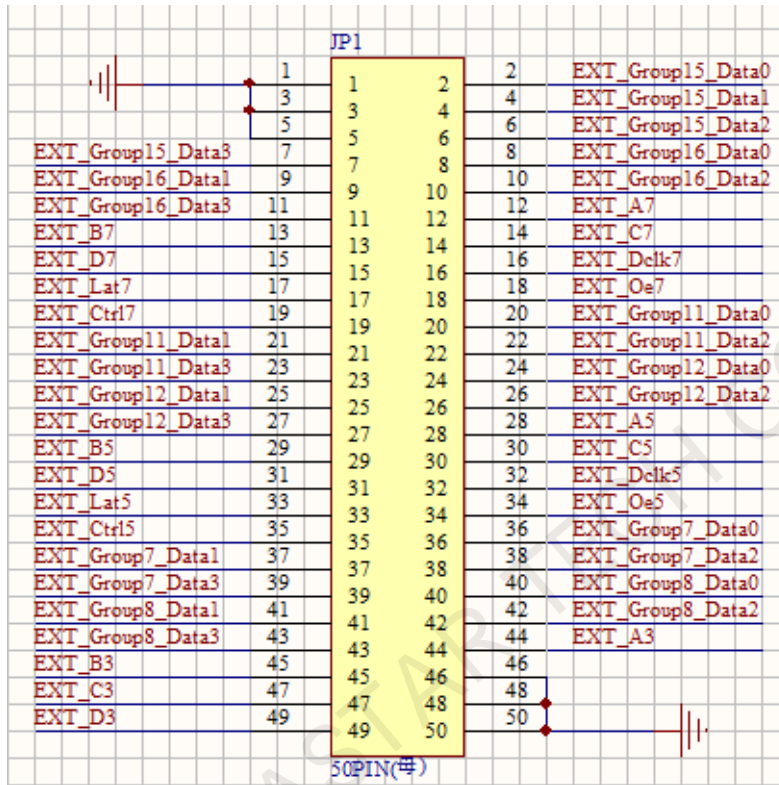
Appearance

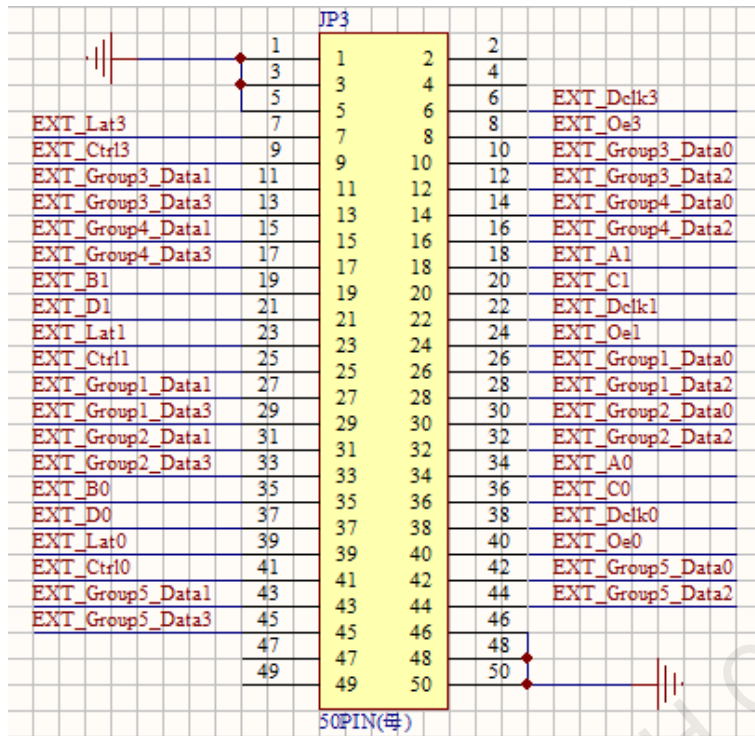


Note: Pictures used in this manual are C version of the board card. The functions of different versions are basically the same. There are only a few small differences in their appearance.

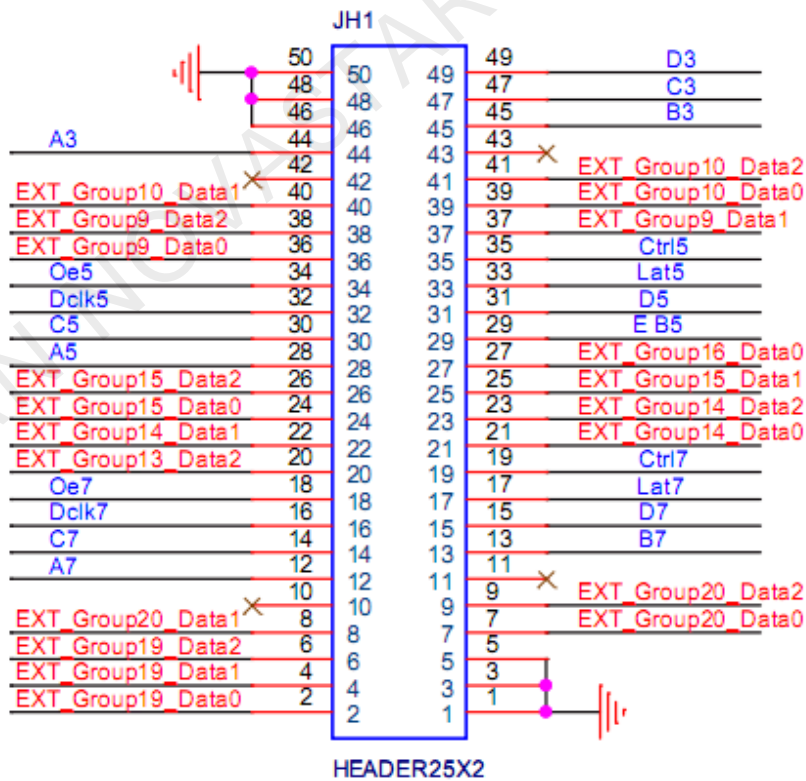
Interface Definition (Please design HUB according to below definitions)

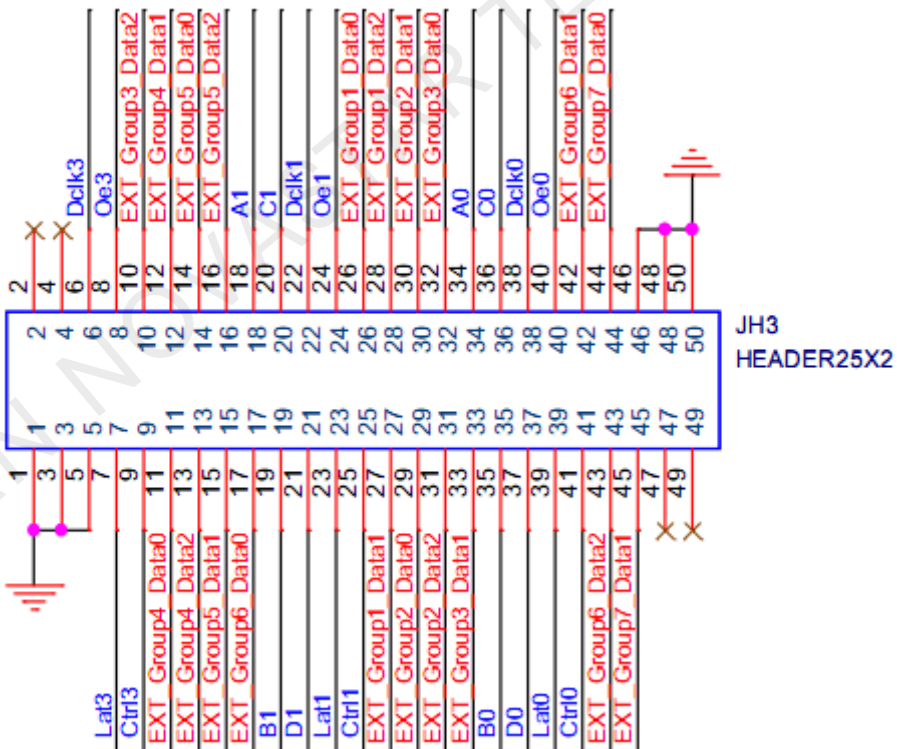
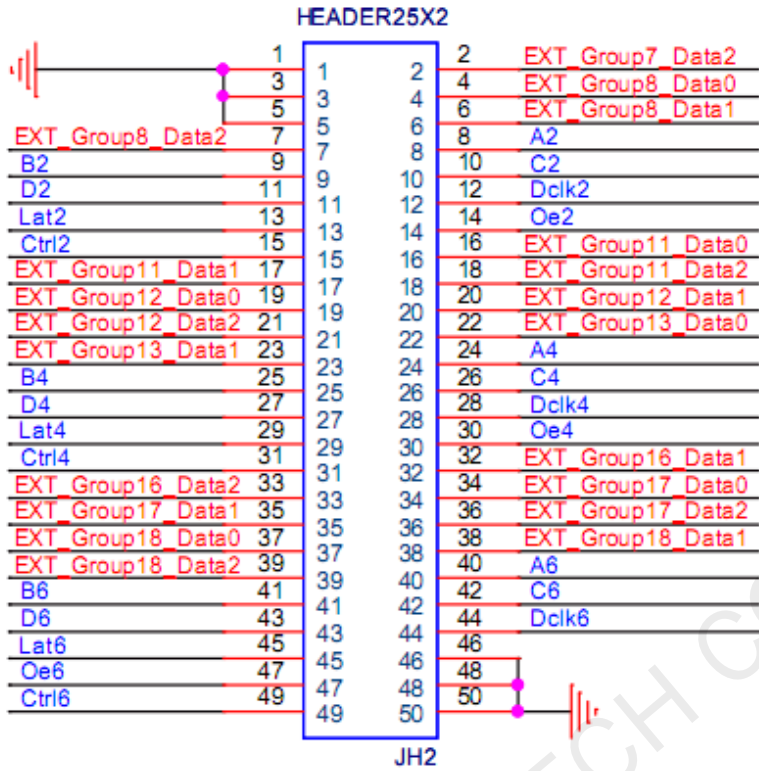
1) 16-group data mode



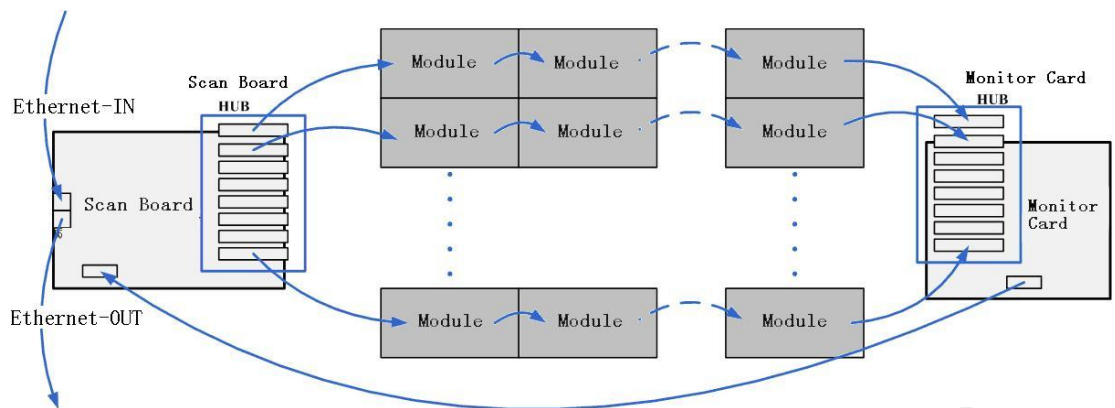


2) 20-group data mode

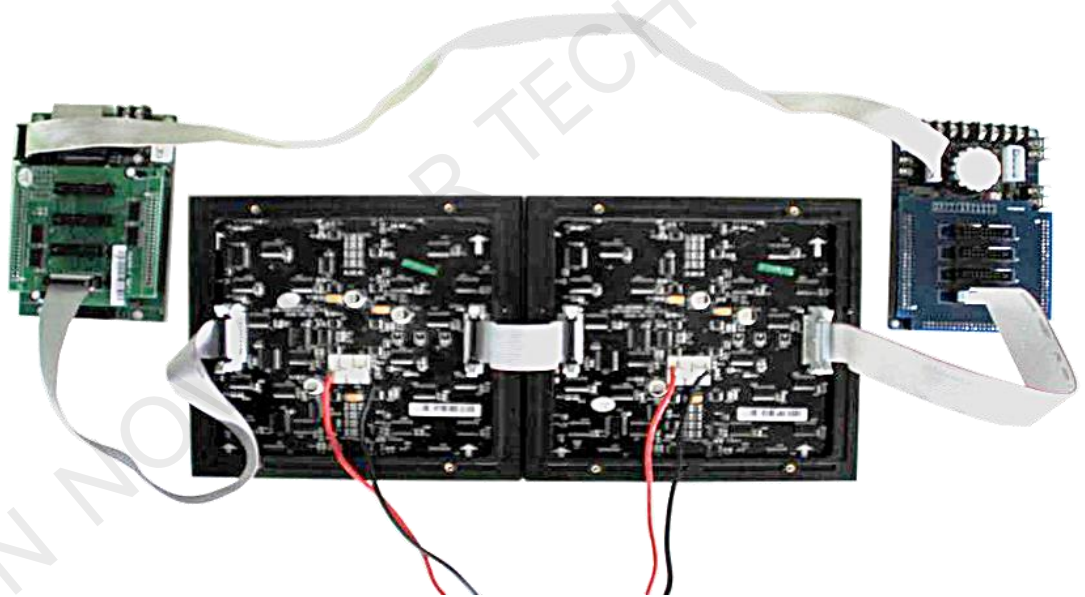




Connection



Connection diagram



Physical connection

Specifications

	MIN	TYP	MAX	
Rated voltage (V)	4.5	5.0	5.5	
Rated current (A)	0.12	0.15	0.20	
Working environment temperature (°C)	-20°C~60°C			
Working environment humidity (%)	0%~95%			
Working environment range of smoke sensor	Environment temperature	-20°C~60°C	Notice: When working temperature of the system card is higher than 60°C and the relative humidity is higher than 60%, smoke sensor warning may happen. See Figure 5-1.	
	Environment humidity	0%~60%		
Performance testing parameters				
Humidity (%)	MIN	1	MAX	99
Smoke	FW HW<0.7Mev			
Voltage	MIN	0	MAX	12

Note: Please DO NOT paint the surface of monitoring card with three-proofing lacquer, otherwise humidity monitoring function of the card may be disabled.

