

# Specifications

## Multifunction Card MFN300

## Features

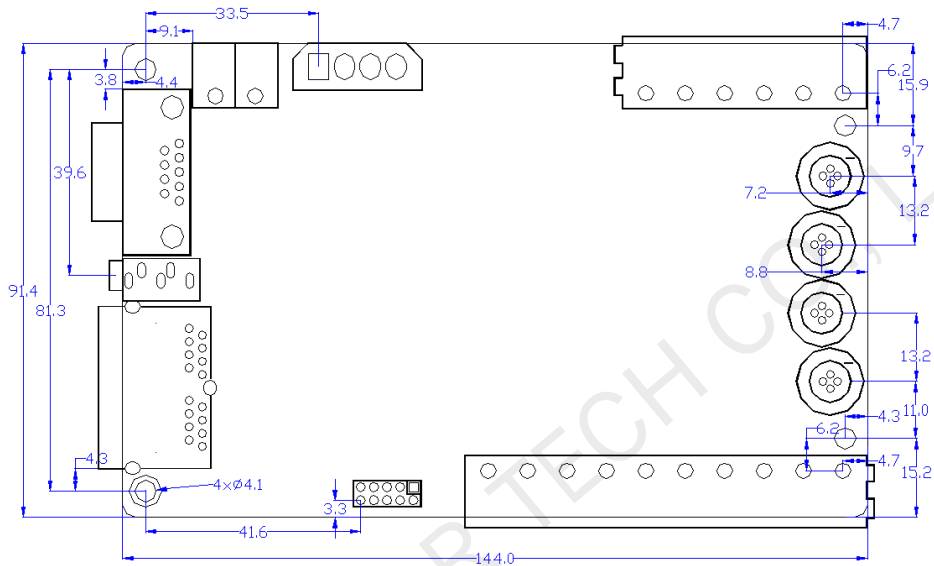
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Nova M3 MFN300 is a multifunction card with a variety of auxiliary functions. It has the following features:

- 1) RS232 serial or Gigabit Ethernet port communication;
- 2) Ethernet port connection between two receiving cards or at the end;
- 3) Timer function which is able to replace timer and delay;
- 4) Temperature detection of power distribution box;
- 5) Humidity detection of power distribution box;
- 6) Audio output;
- 7) 4-way light sensor connection to achieve automatic brightness adjustment;
- 8) Temperature and humidity module connection;
- 9) 8-way power switch control.

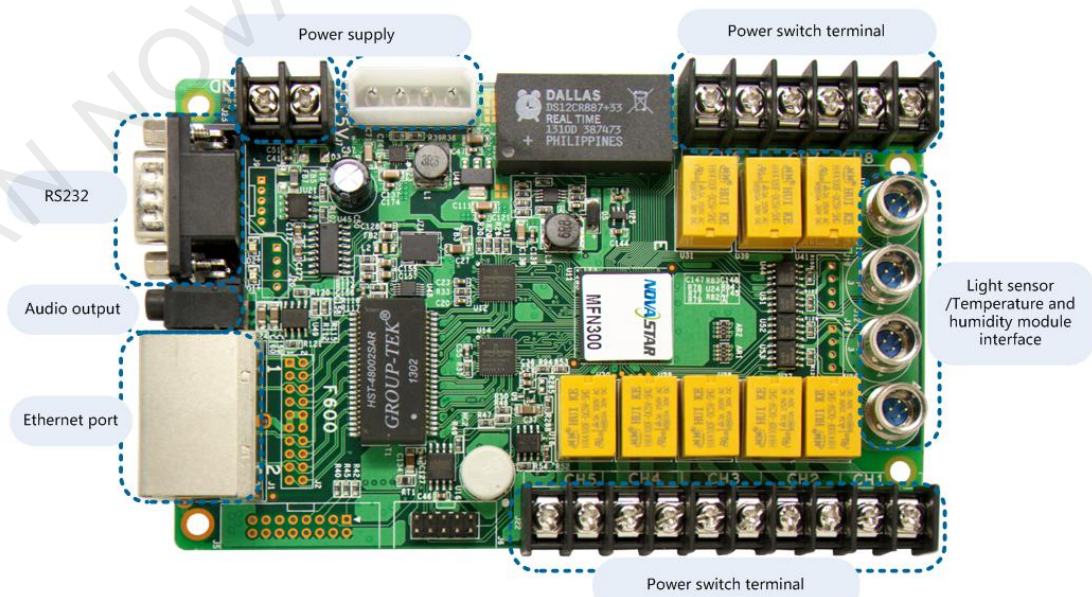
## Dimensions

Thickness of the board is about 1.6mm. The overall thickness (board thickness + thickness of the components on front and back side) is about 20mm.



Unit: mm.

## Appearance



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

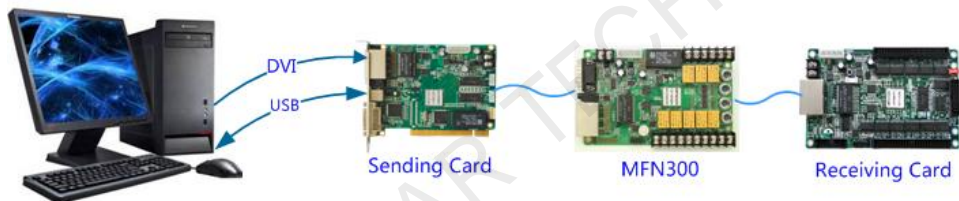
their appearance.

## Connection

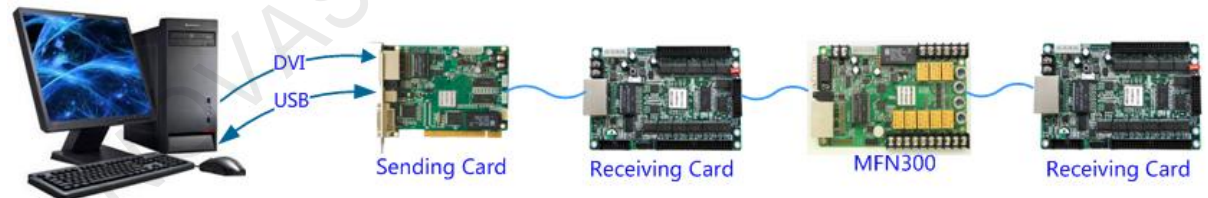
- Connect multifunction card to computer directly by RS232 serial cable.



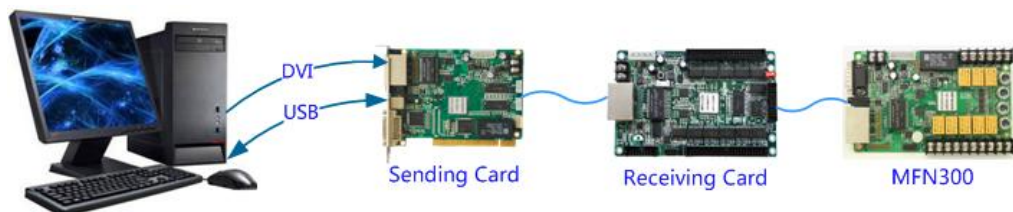
- Connect multifunction card between sending card (or independent controller) and the first receiving card.



- Connect multifunction card between any two receiving cards.



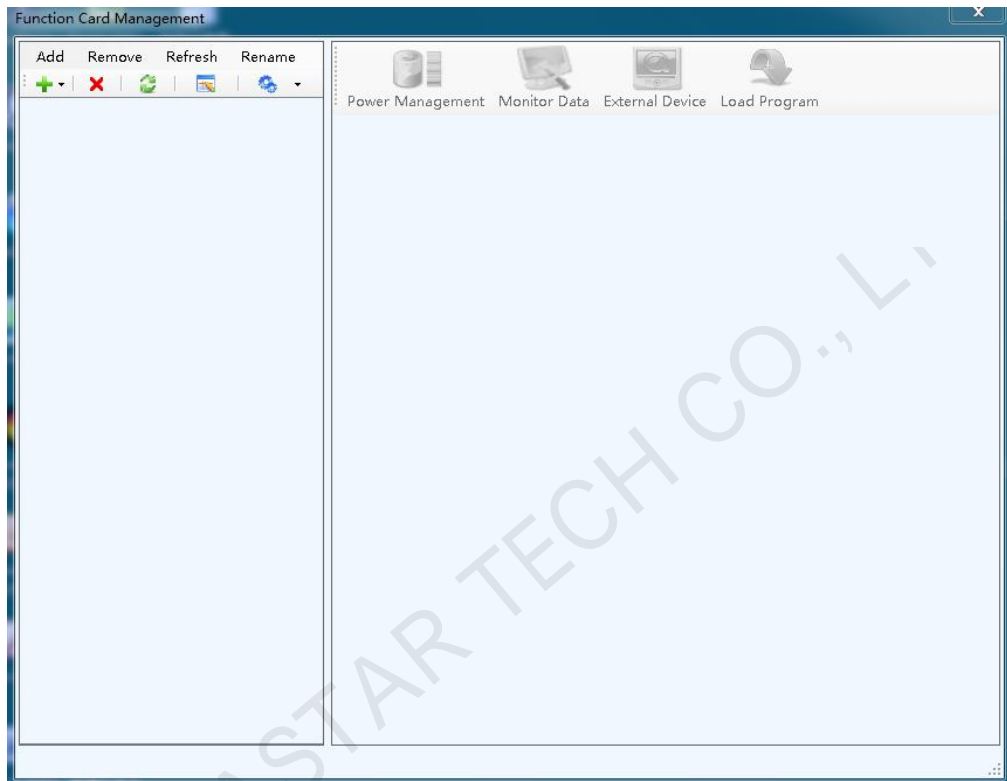
- Connect multifunction card to the last receiving card.



## Software Configuration

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Run **NovalCT-Mars** control software and click **Function Card** button to open Function Card Management page.



Use the menu in above Figure to configure multifunction card, including Add, Remove, Rename a Function card, Modify Serial Port and Replace Serial Port.

### **Add:**

- **Serial port:** Add a multifunction card which is connected to the serial port.
- **Ethernet port:** Add a multifunction card which is connected to the Ethernet port.

**Remove:** Remove the selected node which could be a multifunction card, Ethernet port, sending card or serial port.

**Rename:** Rename the selected multifunction card.

**Serial port operation:**

Click  icon to select Modify Serial Port or Replace Serial Port.

- **Modify Serial Port:** Set the selected serial port as one that no multifunction card has been configured for.
- **Replace Serial Port:** Replace the selected serial port with one which is configured but the configured device type is different from that of actually connected, or is actually not connected.

**Note:** The icon is only available when the following requirements are satisfied: The selected node is a serial port; the device connected to it does not match the one configured to it, or the serial port is not connected.

## Specifications

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<b>Working environment</b>				
	MIN	TYP	MAX	UNIT
Rated voltage	4.5	5.0	5.5	V
Rated current		0.38		A
Power management control voltage (V)	0		250	V
Power management control current (A)	0		3.0	A
Temperature of working environment	-20~75			°C
Humidity of working environment	0~99			%
Net weight	164.4			g