Specifications
Multifunction Card MFN300
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 delayer;
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.

**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*
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

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

![Function Card Management](image)

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

## Working environment

<table>
<thead>
<tr>
<th></th>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>4.5</td>
<td>5.0</td>
<td>5.5</td>
<td>V</td>
</tr>
<tr>
<td>Rated current</td>
<td></td>
<td>0.38</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Power management</td>
<td>0</td>
<td></td>
<td>250</td>
<td>V</td>
</tr>
<tr>
<td>control voltage (V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power management</td>
<td>0</td>
<td></td>
<td>3.0</td>
<td>A</td>
</tr>
<tr>
<td>control current (A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature of working environment</td>
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<td></td>
<td>℃</td>
<td></td>
</tr>
<tr>
<td>Humidity of working environment</td>
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<td></td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
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<td></td>
<td></td>
<td>g</td>
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</tbody>
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