Nova M3 MFN300 Function Card
Specifications

Ver 2.0.0 2013-6-21

1 Functions

Nova M3 MFN300 is a multi-function card with a variety of auxiliary functions. It has the following characteristics:

1) RS232 serial or Gigabit Ethernet port communication;

2) Support Ethernet port connection between two receiving cards or at the end;
3) Has timer function, can replace timer and delayer;

4) Support temperature detection of power distribution box;

5) Support humidity detection of power distribution box;

6) Support audio output;

7) Support 4-way light sensor connection, achieve automatic brightness adjustment;

8) Support Temperature and humidity module connection;

9) Supports 8-way power switch control;
2 Dimensions and interface

![MFN300 dimensions diagram](image)

Fig. 1 MFN300 dimensions
Fig. 2 MFN300 interface diagram
3 Connection

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

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

- Connect function card between any two receiving cards.

- Connect function card to the last receiving card.
4 Software configuration

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

Use the menu in above Figure to configure function card, including add, remove, rename a function card, modify serial port, and replace serial port.

**Add:**

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

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

Rename: Rename the selected function 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 function card has been configured for it.

- **Replace Serial Port:** replace the selected serial port with the one which is configured but the configured device type is different from that 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.
## 5 Working conditions

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Rated voltage</th>
<th>Maximum</th>
<th>5.50</th>
<th>Minimum</th>
<th>3.30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (V)</td>
<td>Rated current</td>
<td>5.00</td>
<td>Maximum</td>
<td>5.50</td>
<td>Minimum</td>
<td>3.30</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>Rated power consumption</td>
<td>2.00</td>
<td>Maximum</td>
<td>2.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working temperature (°C)</td>
<td></td>
<td></td>
<td>Maximum</td>
<td>75.00</td>
<td>Minimum</td>
<td>-20.00</td>
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<tr>
<td>Working relative humidity</td>
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<td></td>
<td>Maximum</td>
<td>0.99</td>
<td>Minimum</td>
<td>0.00</td>
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<tr>
<td>Power management control voltage (V)</td>
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<td></td>
<td>Maximum</td>
<td>250.00</td>
<td>Minimum</td>
<td>0.00</td>
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<tr>
<td>Power management control current (A)</td>
<td></td>
<td></td>
<td>Maximum</td>
<td>3.00</td>
<td>Minimum</td>
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</tr>
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