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Specifications

Multifunction Box MFN300-B

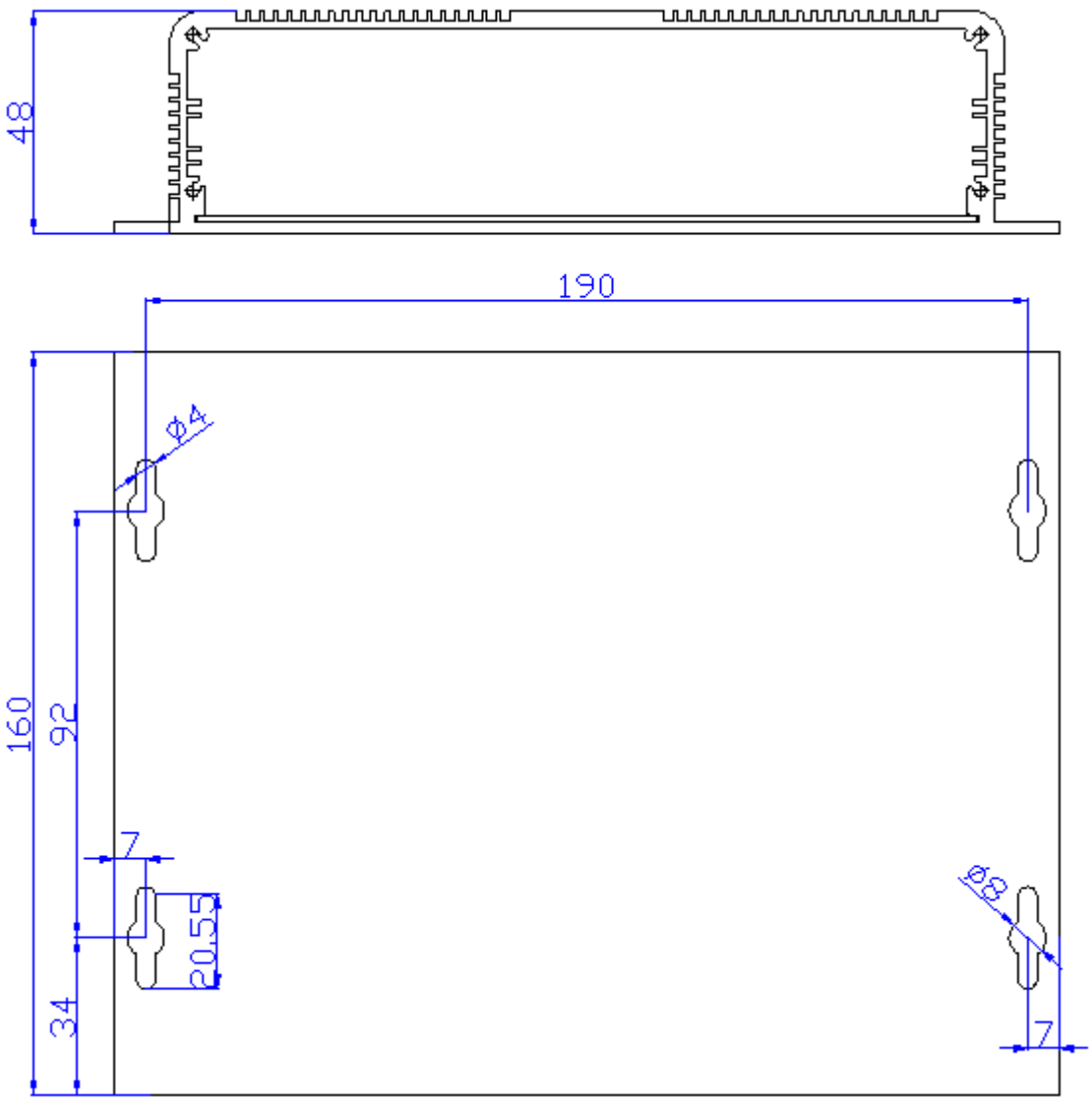
Rev2.1.0 NS110100127

Features

Nova MFN300-B is a multi-function box with a variety of auxiliary functions. It has the following features:

1) RS232 serial or Gigabit Ethernet port communication;
2) Supporting 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) Supporting 2-way light sensor connection to achieve automatic brightness adjustment;
8) Supporting Temperature and humidity module connection;
9) Supporting 8-way power switch control.

Dimensions



Unit: mm.

Appearance



LED Indicator	
PWR	Power indicator, always on after power on
RUN	It blinks about twice per second when MFN300-B works normally. It doesn't blink when MFN300-B doesn't work.
LIGHT SENSOR	Light sensor interface, Temperature and humidity module interface
UART	RS232 communication interface
AUDIO	Audio output
DATA	Ethernet port, connected to sending card or resaving card
CH1~CH8	8-way power switch terminal

Connection

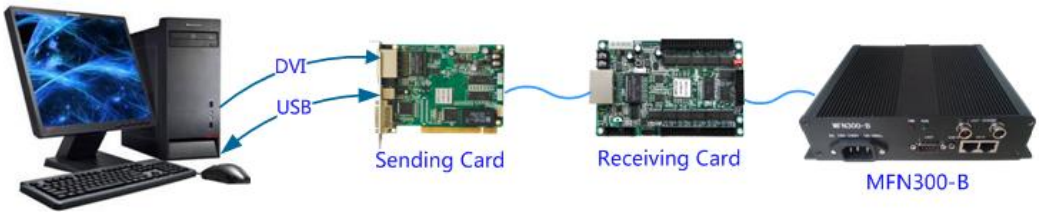
- Connect function box to computer directly by RS232 serial cable.



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

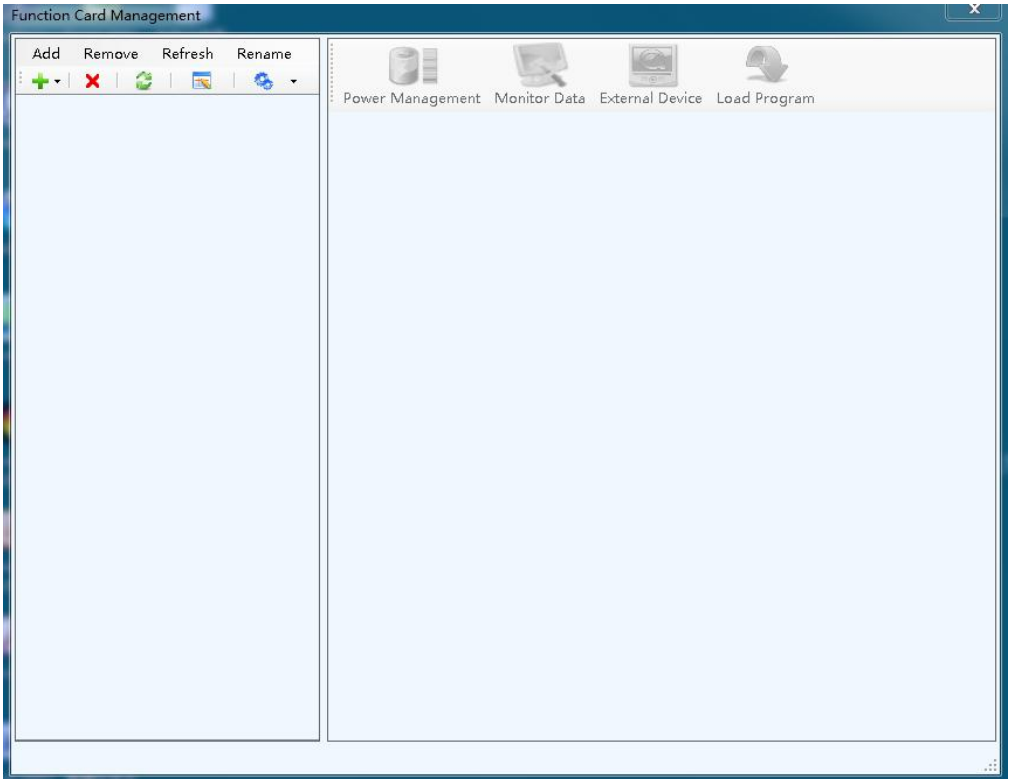


Connect function box to the last receiving card.



Software Configuration

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

Working environment				
	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		℃
Humidity of working environment		0~99		%