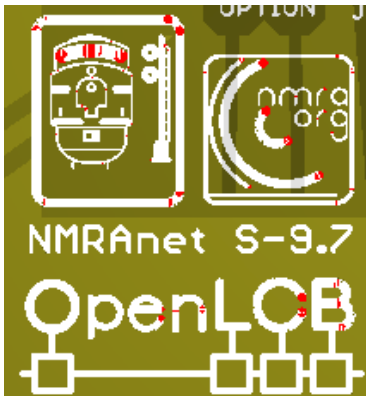
DevKit / Io v1.0
Manual
v0.1



Welcome to the OpenLCB / RailStars / NMRAnet DevKit. This kit is meant to allow you to quickly use it to solve a problem on your model railroad. This manual will help you with that task.

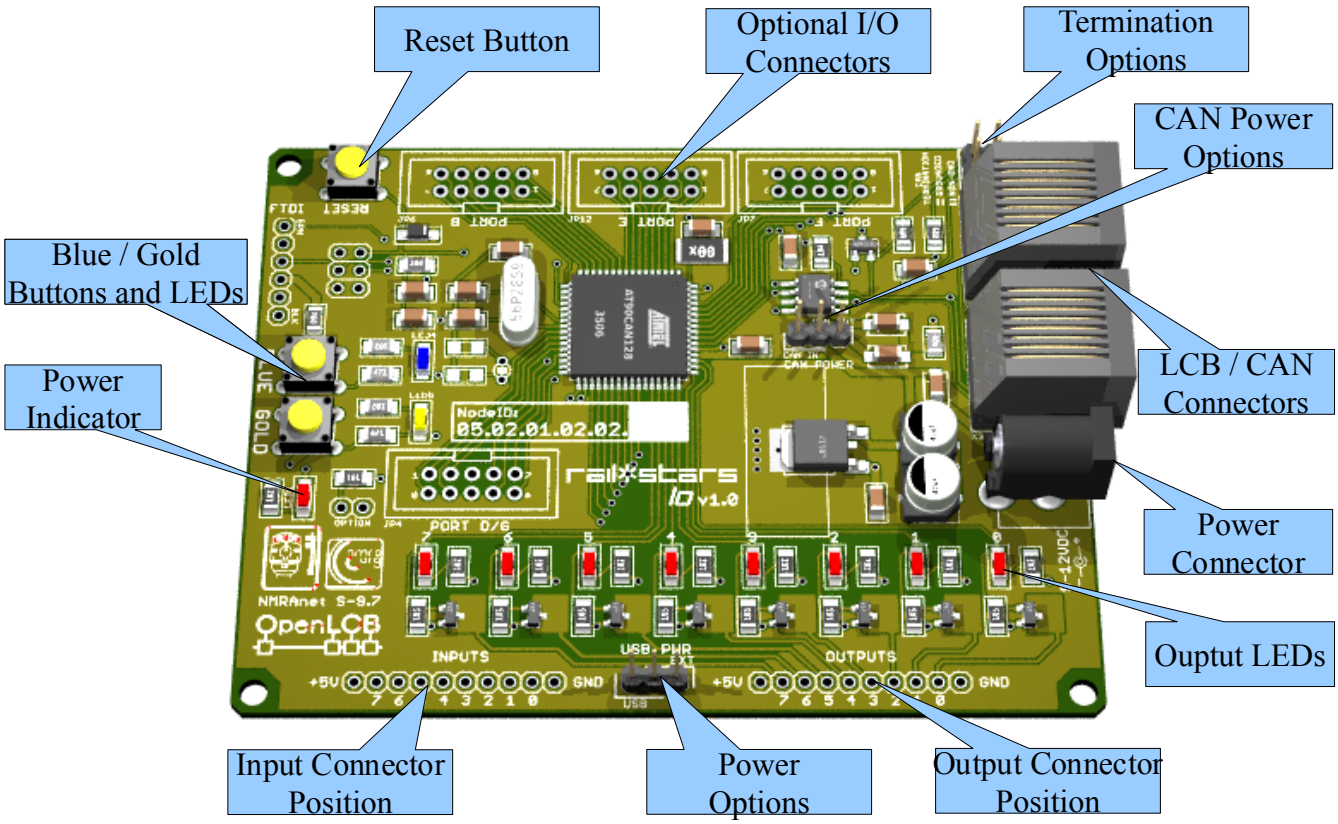
Contents:

1. Four Io version 1.0 nodes;
2. One USB-serial programming cable;
3. One manual (this);
4. A assortment of connectors:
5. Two 10-position screw-terminals;
6. Four shouded 2x5 headers;
7. Seven strips of pinheaders;
8. Four strips of 1x6 right-angle pinheader;

Please check to make sure you have these.

You will also need to supply a power-supply from 8-15VDC with a centre-positive barrel connector.

The Node as it appears out of the box.



Power:

The nodes can be supplied from three sources:

1. Externally from the 2mm Barrel connector. This requires 7-15VDC positive to inside. The USB Power Selector link needs to be set to “EXT”.
2. Externally through the Serial Connector. The USB Power Selector link needs to set to “USB”.
3. From the CAN / LCB bus. This requires the CAN Power Selector to be set to “CAN IN”.

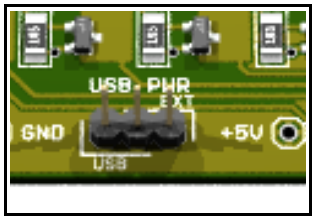


Illustration 1: USB Power Selector

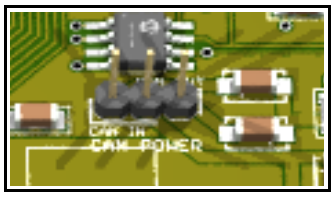


Illustration 2: The CAN Power Selector.

In addition, if the nodes are externally powered then they can provide power to the LCB / CAN bus , and other nodes, by setting the CAN Power Option link to the “CAN OUT” position.

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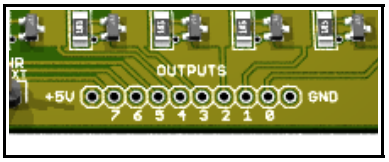
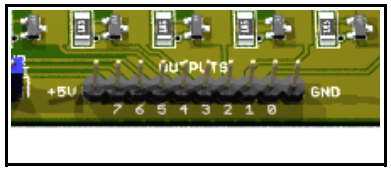
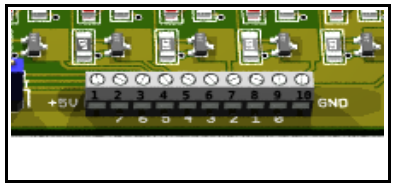
Output Connectors



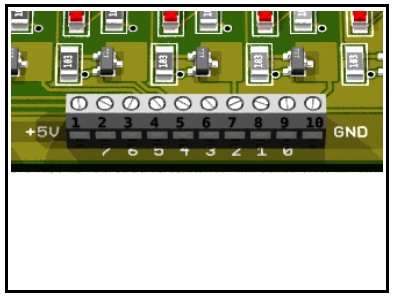
As from the box.



Pinheaders installed.



Screw-terminals installed.



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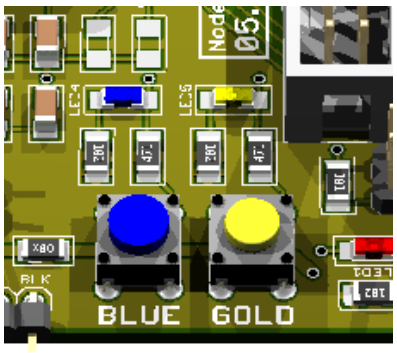
Blue-Gold

The nodes can be taught to interact quite easily by using what we call “Blue – Gold” programming. There is a Blue and a Gold button with matching LEDs.



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