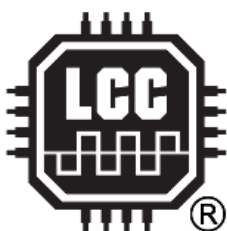
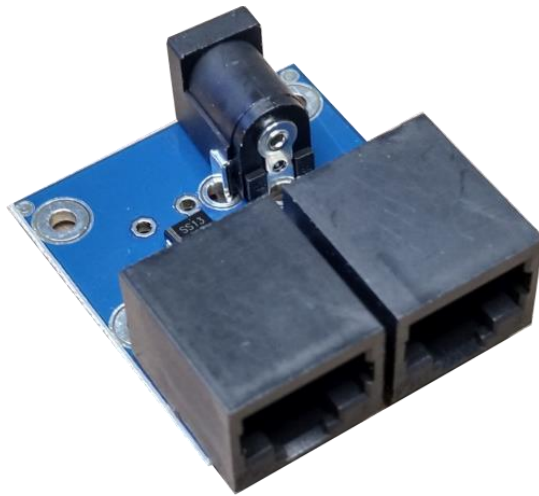


**POWER-LCC Module  
for LCC®/OpenLCB™  
SPROG DCC Ltd**



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Unless otherwise notes references in this document to LCC apply equally to OpenLCB, and vice-versa.

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OpenLCB™ is a trademark of the OpenLCB Group

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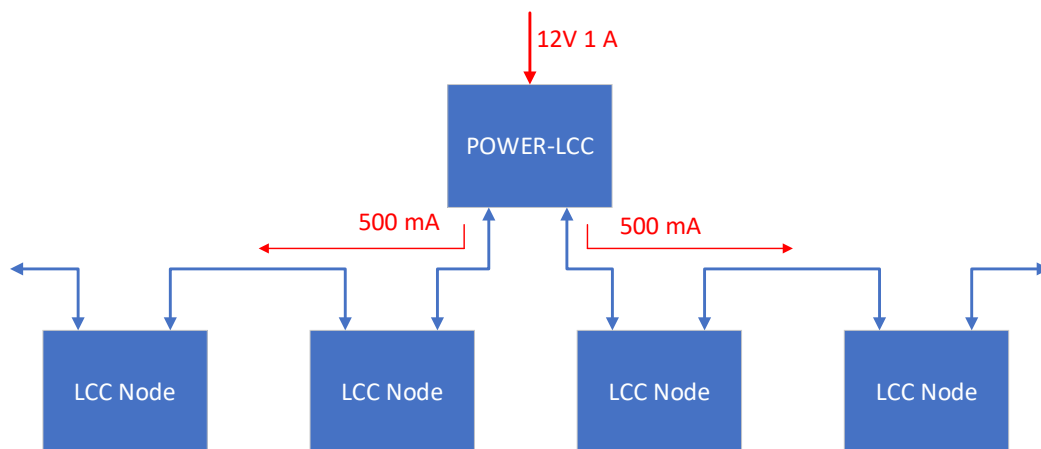
## 1 Introduction

The power LCC allows power to be supplied to an LCC network. It is designed to be used with an external 12V 1 Amp PSU (Power Supply Unit).

## 2 Connecting the POWER-LCC to the network

The two RJ-45 connectors allow the LCC network to be passed through the USB-LCC whilst supplying power to the network.

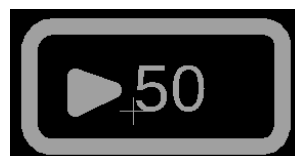
The power from the PSU is split into two 500 mA fused supplies, one to each LCC network connector. In a larger network, multiple POWER-LCC may be used to satisfy the power requirements of all the nodes in 500 mA segments.



Status LEDs show when power is applied to each segment.

Some LCC nodes may need auxiliary power supplies for high-power loads. Consult the manufacturers' documentation for details.

Nodes should declare what current they take from the LCC network supply, e.g. with a logo on the PCB (Printed Circuit Board). The example below indicates a node that presents a 50 mA load to the network. This information is used to calculate the total current required for each segment of the network.



### 3 Links

SPROG DCC Ltd website <https://www.sprog-dcc.co.uk> For all our products and support.

SPROG DCC Ltd Official YouTube Channel <https://www.youtube.com/@sprogdcc>

OpenLCB group <https://openlcb.org> The group behind the OpenLCB/LCC standards.

NMRA LCC standards page <https://www.nmra.org/lcc> The LCC standards adopted by the NMRA.

OpenLCB discussion group <https://groups.io/g/openlcb/topics> Discussion of OpenLCB topics, more developer focussed.

The NMRA's LCC user group <https://groups.io/g/layoutcommandcontrol/topics> a good starting point for asking questions of other LCC users.

Book: Introduction to Layout Command Control <https://www.amazon.co.uk/Introduction-Layout-Command-Control-Practical/dp/0988825902> focussed on RR-Cirkits products but the concepts are applicable to any LCC hardware.