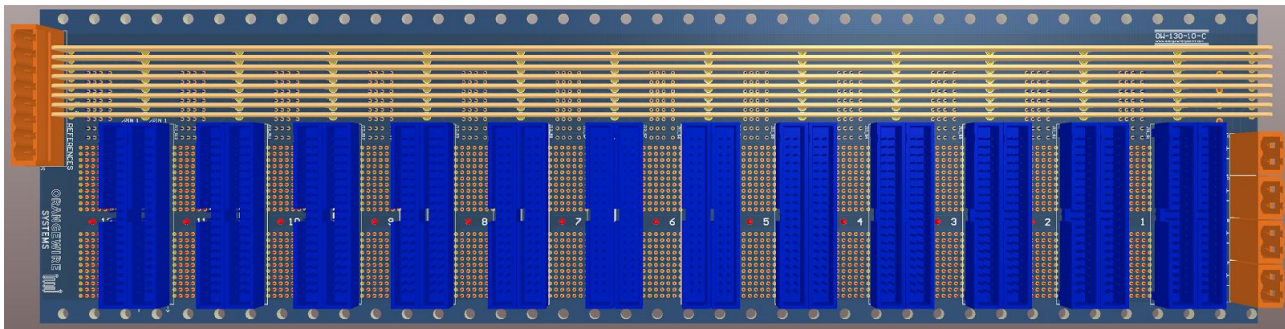


Datasheet

OW-130

12 Slot Signal Midplane



Overview

The OW-130 is a 12 slot midplane that provides common power and signal references to OrangeWire load, FIU, and signal conditioning boards. The midplane features eight power rails (four high and four low) constructed of 10 AWG busbar, supporting up to 20A per rail. Rails may be paralleled together to support higher current in certain applications.

The OW-130 installs in the NI SLSC chassis and mates with the J2/J3 SLSC connectors on SLSC modules. The board accepts SLSC compliant signal conditioning boards.

Reference power can be directly supplied to the board or through the OW-503-4 4 Channel 40A Power Switching Board, providing for flexible usage with a variety of fixed and programmable power sources.

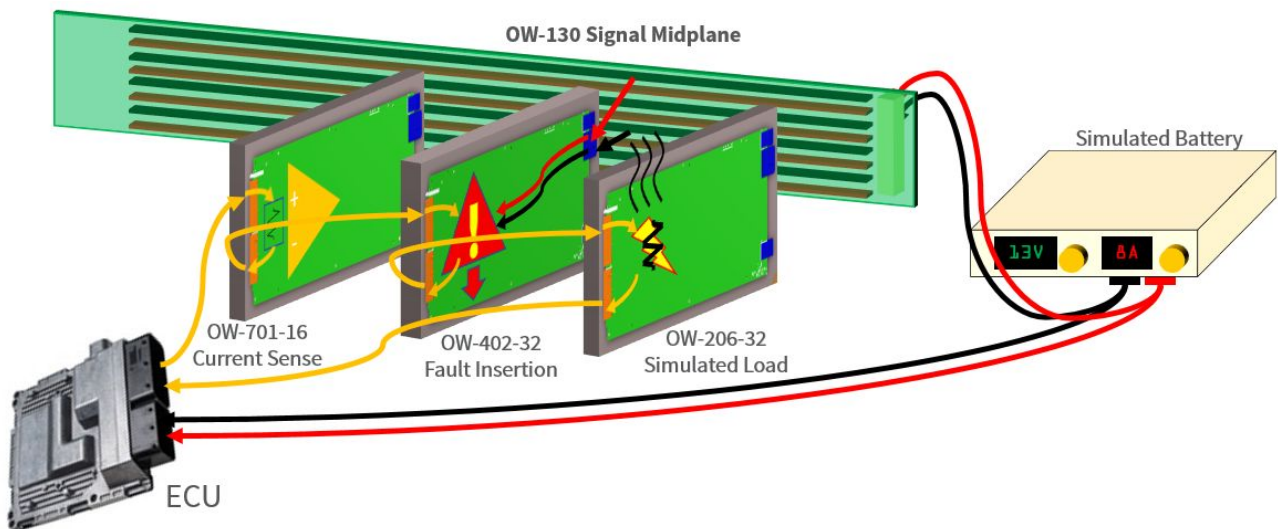
Connectivity on the rear of the midplane allows OrangeWire load, signal conditioning, and FIU boards to interface with National Instruments PXI and C-Series instrument IO.

- 12 Slot Midplane and Signal Adapter board
- Convenient method for wiring references to many different modules
- For NI SLSC system
- For DET HIL simulation
- 20A per fail rail
- Use with NI PXI or CompactRIO

Application

The OW-130 is used to provide a common mounting feature and signal output pattern for adapters to connect many different types of real time National Instruments real time modules and all of their various pinouts. The 8 power rails connect power to each SLSC module without any additional wiring so that modules can select which rails they take power from.

The OW-130 is ideal for providing failure and signal reference power to load, signal conditioning, and FIU boards in a variety of Hardware in the Loop applications.



Specifications

Absolute Maximum Ratings	
Rail to Rail Voltage	300V
Total Rail Current	40A
Current, any single rail connector pin	20A
Current, any signal pin	100mA

General	
Number of SLSC Slots Supported	12
Slot pitch	1.2"
Number of Fail/Reference Rails	8 (4 High/4 Low)
Architecture	Compatible with NI SLSC Chassis
SLSC Board Connectivity	2.0mm 110 pin Hard Metric
Card Rear IO Connectivity	2 .1" Double Row 40 pin header
Reference Power Connectivity	.2" 8-position Weidmuller 5.08 mm Omnimate