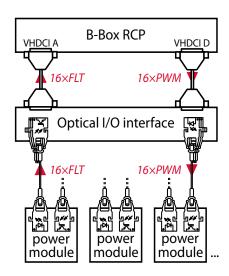


GENERAL DESCRIPTION

The optical expansion board converts the electrical signals from the VHDCl connectors on the rear side of the **B-Box RCP** to **optical** signals. It allows access to the 16 fault inputs and the 16 PWM outputs through optical fibers. The fault inputs are available on the VHDCl connector A and the PWM outputs on VHDCl connector D.

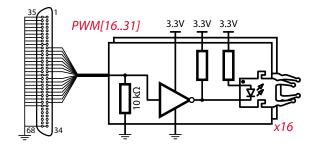
This way, one single B-Box RCP in combination with the optical expansion can control up to 8 NPC control legs, 8 full-bridge modules (4 PWM signals per module), or 16 half-bridge modules (2 PWM signals per module).



The optical expansion board is supplied by the external power adapter WSX120-2000 (12 V/2 A). The power adapter and the two required VHDCl cables are delivered with the optical expansion board.

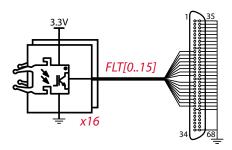
PWM OUTPUTS

- 16 PWM signals
- PWM channels #8 to #15 mapped to lanes #16 to #31
- Max. prop delay difference between 2 channels: 80 ns
- Optical fiber wiring of the gating signals to imperix PEB/PEH/PEN power modules



FAULT INPUTS

- 16 Fault signals (#0 to #15)
- Max. prop delay difference between 2 channels: 80 ns
- Optical fiber wiring of fault outputs from imperix PEB/ PEH/PEN modules
- Configurable as general-purpose inputs as well



CONTACT

ABOUT US