Optocape is a optical signal buffer cape, with integrated LVDS transmitter for BeagleBone Black Rev C.

FEATURES:

- 15 high-speed outputs (TLP2200)
- 4 relay outputs (TLP222A)
- 10 high-speed inputs (FOD817)
- LVDS video output (SN75LVDS83B)
- Isolated UART serial port
- Cut-out for access to BBB serial debug port
- 4 analog inputs

Note: Analog and LVDS pins are not isolated

LVDS Video

DGND	DGND
3.3V	3.3V
3YP	3YM
CLKP	CLKM
2YP	2YM
1YP	1YM
0YP	0YM

LVDS enabe - 8.11

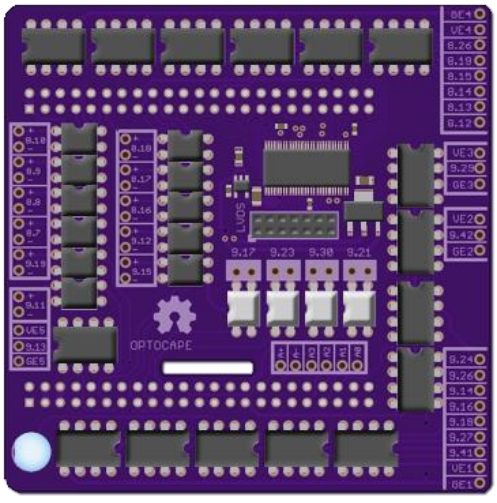
Inputs 2.5 - 6.0 VDC

8.10 +/-
8.9 +/-
8.8 +/-
8.7 +/-
9.19 +/-
8.18 +/-
8.17 +/-
8.16 +/-
9.12 +/-
9.15 +/-

UART4 Serial

9.11 - RX PLUS
9.11 - RX MINUS
VE5 - EXT VCC
9.13 - TX OUTPUT
GE5 - EXT GND

LED 9.25



Outputs 0.5 - 20 VDC

GE4 - EXT GND
VE4 - EXT VCC
8.26 - OUTPUT
8.19 - OUTPUT
8.15 - OUTPUT
8.14 - OUTPUT
8.13 - OUTPUT
8.12 - OUTPUT

VE3 - EXT VCC
9.29 - OUTPUT
GE3 - EXT GND

VE2 - EXT VCC
9.42 - OUTPUT
GE2 - EXT GND

9.24 - OUTPUT
9.26 - OUTPUT
9.14 - OUTPUT
9.16 - OUTPUT
9.18 - OUTPUT
9.27 - OUTPUT
9.41 - OUTPUT
VE1 - EXT VCC
GE1 - EXT GND

Relay Outputs 500mA

9.17 C/NO
9.23 C/NO
9.30 C/NO
9.21 C/NO

Analog Inputs

VDD_ADC
GNDA_ADC
AIN3
AIN2
AIN1
AIN0