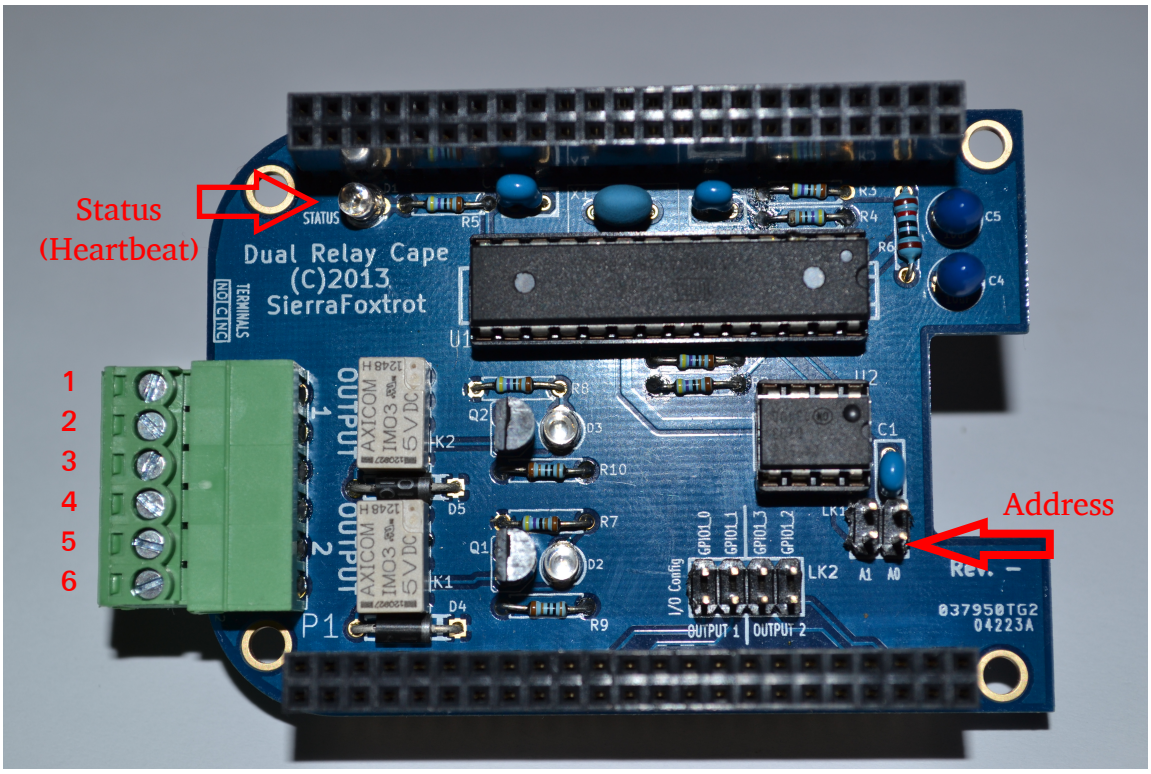
Sierra Foxtrot

Smart Dual Relay Cape for the BeagleBone Black



Screw Terminals

1: Output 1 Normally Open
2: Output 1 Common
3: Output 1 Normally Closed
4: Output 2 Normally Open
5: Output 2 Common
6: Output 2 Normally Closed

Address Links (LK1)

	A1	A0
Cape 1 :	Off	Off
Cape 2 :	Off	On
Cape 3 :	On	Off
Cape 4 :	On	On

I²C Address

Cape1: 0x10
Cape2: 0x11
Cape3: 0x12
Cape4: 0x13

Example: Reading ID register of cape #2 (address 0x11)

I2C START CONDITION
WRITE: 0x11 // Address
WRITE: 0x10 // ID Register
READ: 0x02 NACK // 2 == Dual Relay Cape. last read before STOP NACK
I2C STOP CONDITION

Example: Turning on Output 1 of cape #1 (address 0x10)

I2C START CONDITION
WRITE: 0x10 // Address
WRITE: 0x10 // Output Register 0
WRITE: 0x01 // New value is ON
I2C STOP CONDITION