

Full list of desired connections on SIB:

1. SCB-to-SIB:

- 7 x diff pairs for MOSAIX S/Cs (14 wires).
- VTRx+ power (2V5 domains could be supplied by 1 source, GND could be shared for all domains) (3-6 wires).
 - 1V2 Tx domain (VCCT1V2).
 - 2V5 Tx domain (VCCT2V5).
 - 2V5 Rx domain (VCCR2V5).
 - GND needed.
- VTRx+ I2C (share GND with power domains?) (2-3 wires).
 - SCL.
 - SDA.
- Laser driver controls (2 wires).
 - Reset.
 - Disable.
- RSSI (Rx current monitor) (1 wire).
- VTRx+ thermistor (2 wires).
 - 2 terminal interface.
- Voltage sense (for VTRx+ domains) (3-4 wires).
 - 1V2 domain.
 - Shared or separate 2V5 domains?
 - GND sense (to account for V-shift on both rails).

Minimum of 27 wires (up to 32) between SCB and SIB.

- *Minimum only includes 1 x GND wire (we probably want more)!*

 **Not on the sib (but related)**

- There are 4 power domains (TXVDD, GDVDD, GAVDD, GSVDD all with equivalent VSS) from the SCB to MOSAIX.
- The PSUB (and VSS) goes from the DPB to MOSAIX.