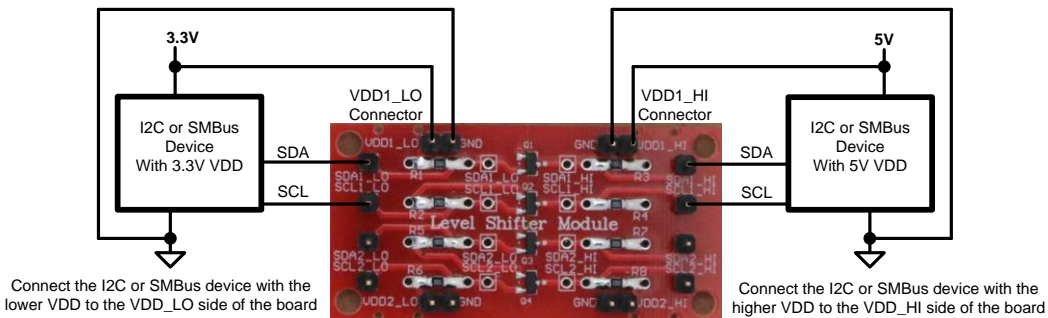


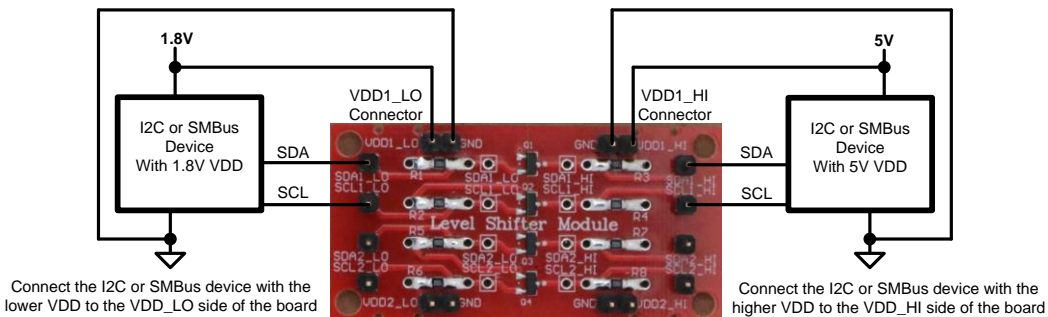
## Level Shifter Board Application Note

The Level Shifter board is designed to interface I2C or SMBus signals between devices with different VDD voltages.

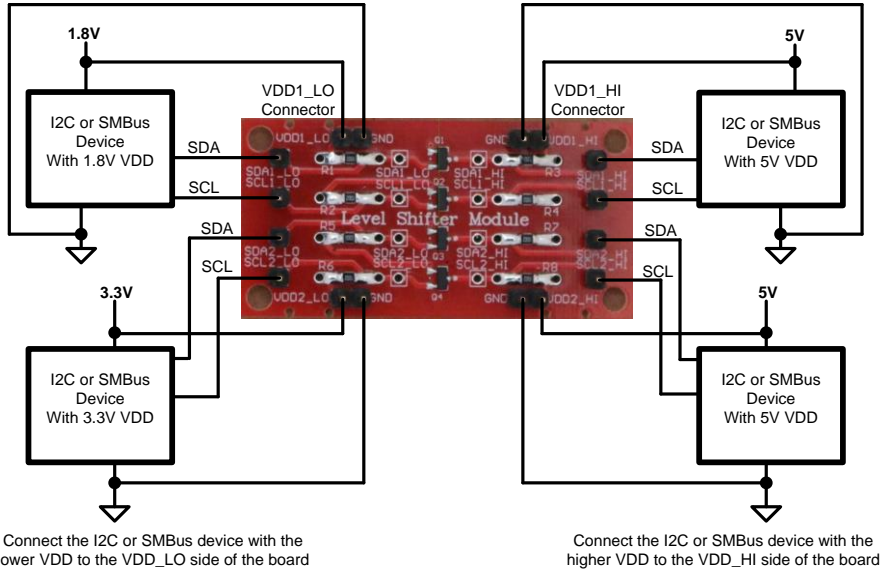
The Level Shifter Board contains two independent level shifter circuits, with a common ground.



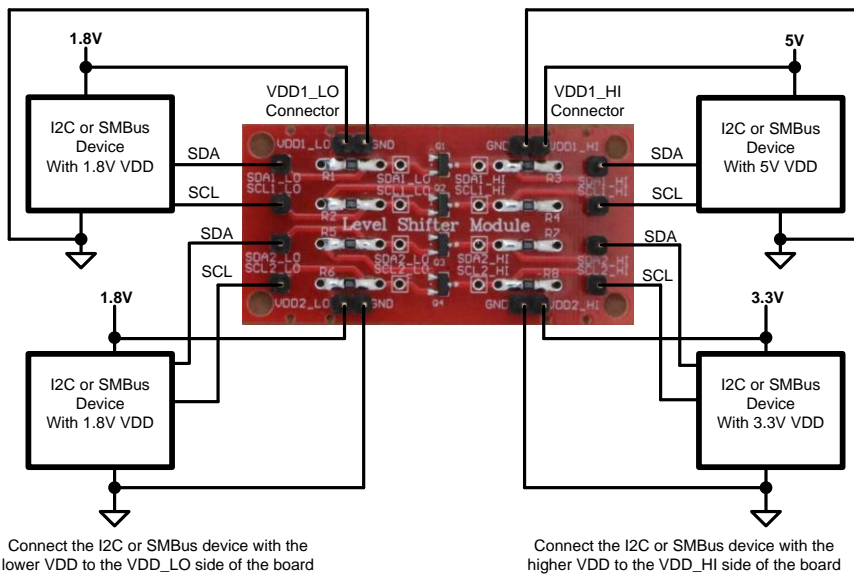
Example of using one section of the level shifting board to connect from a 5V device to a 3.3V device. Either the upper or the lower section could be used.



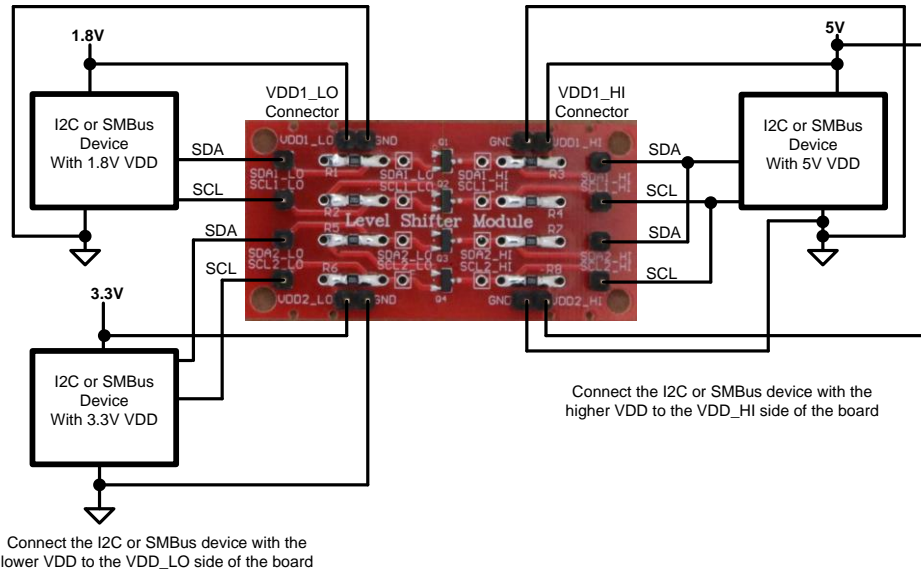
Example of using one section of the level shifting board to connect from a 5V device to a 1.8V device. Either the upper or the lower section could be used.



Example of using both sections of the level shifting board. One section to connect from a 5V device to a 1.8V device and the other section to connect a 5V device to a 3.3V device.



Example of using both sections of the level shifting board. One section to connect from a 5V device to a 3.3V device and the other section to connect a 3.3V device to a 1.8V device.



Example of using both sections of the level shifting board. One section to connect from a 5V device to both a 3.3V device and a 1.8V device. In this example every device can communicate with every other device.