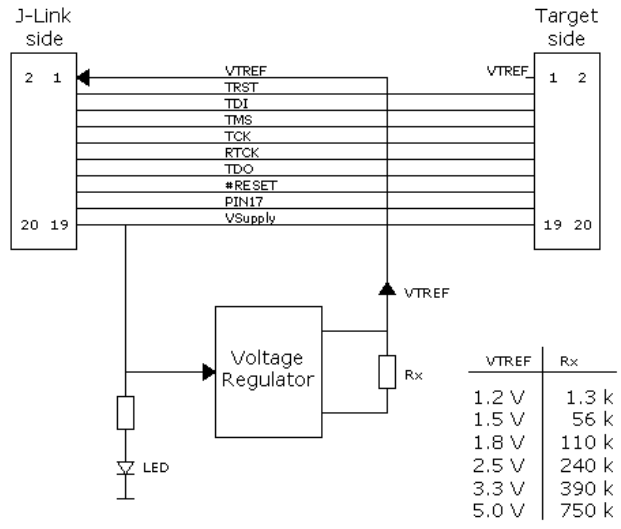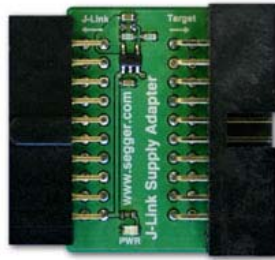### J-Link Supply Adapter

The J-Link Supply Adapter provides a fixed I/O voltage level for VT_{Ref}. It eliminates the need to connect VT_{Ref} (pin1) to the target.

In general, the target provides its I/O voltage level (VT_{Ref}) on pin 1 to the debug probe insuring the debug probe uses the right I/O voltages and avoiding damage of the target debug pins. If signal VT_{Ref} is not desired on the target board it can be omitted by using the J-Link Supply Adapter, manually setting the I/O voltage. Default I/O voltage is 3.3 V. For increased flexibility the J-Link Supply Adapter can adapt to other target voltages in the range from 1.2 V to 5.0 V by replacing a single resistor on the adapter.

The Supply Adapter can be inserted between J-Link and the target maintaining a 1:1 connection of all debug signals (except VT_{Ref}/pin 1). It has a standard 20-pin 0.1" socket towards the J-Link debug probe and a standard 20-pin 0.1" header on the target side. The main reason for using the adapter is to reduce the number of connections to the target, especially in production environments. It can also be used with Flasher ARM. For dual wire debug interfaces such as SWD, typically only 3 wires are still required: SWDIO and SWDCLK as well as GND. For single wire interfaces such as SPD, the number of connections is reduced to 2 accordingly.

The J-Link Supply Adapter is compatible with J-Link BASE, J-Link PRO, J-Link ULTRA+, J-Link PLUS and Flasher ARM.

VTREF	Rx
1.2 V	1.3 k
1.5 V	56 k
1.8 V	110 k
2.5 V	240 k
3.3 V	390 k
5.0 V	750 k

Block diagram of the J-Link Supply Adapter

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