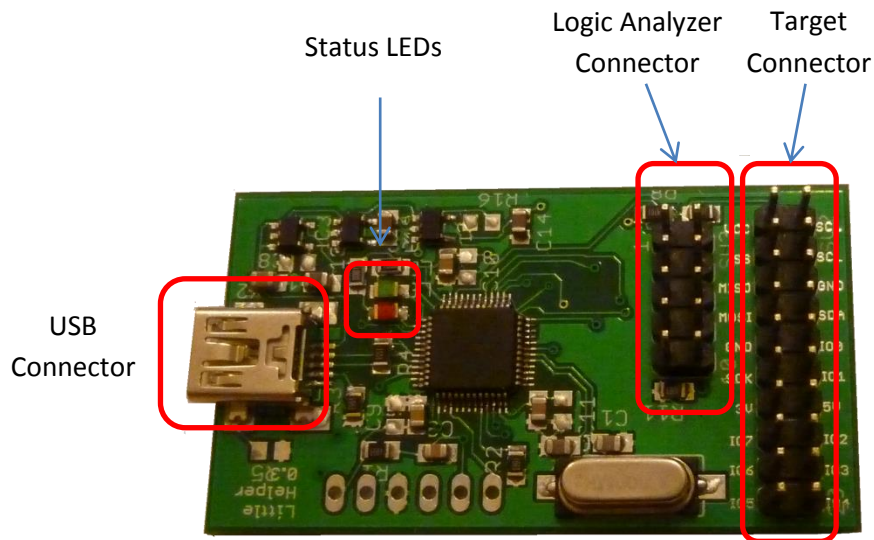


1 Hardware Connectors



1.1 USB Connector

A standard USB mini connector is used to connect the Embedded Little Helper to the host system.

1.2 Status LEDs

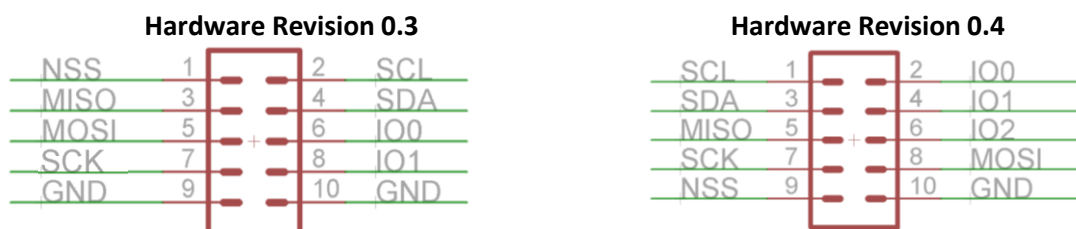
There is a red and green LED indicating the current status of the Embedded Little Helper:

Solid Red	Connected to the operating system but not initialized.
Solid Green	Connected and initialized. Initialization takes place the first time the library is loaded.
Solid Red & Solid Green	Currently executing.

1.3 Logic Analyzer Connector

The Logic Analyzer Connector is used connect a logic analyser in addition to a target device. This allows debugging the communication between the Embedded Little Helper and a target device.

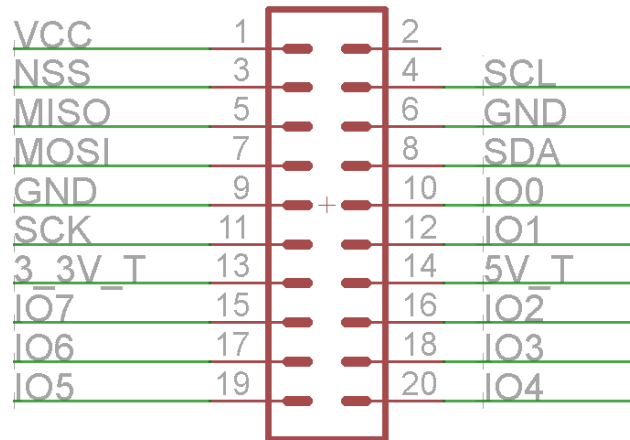
When the USB connector of the Embedded Little Helper faces to the left, pin one is in the top left corner and pin 10 is in the bottom right corner.



1.4 Target Connector

The target connector is used to connect the Embedded Little Helper to a target system.

When the USB connector of the Embedded Little Helper faces to the left, pin one is in the top left corner and pin 20 is in the bottom right corner. The following figure shows the function of each pin:



1.4.1 Spi Pins

NSS (Pin 3):	Slave Select
MISO (Pin 5):	Master In Slave Out
MOSI (Pin 7):	Master Out Slave In
SCK (Pin 11):	Serial Clock

1.4.2 I2C Pins

SCL (Pin 4):	Serial Clock
SDA (Pin 5):	Serial Data

1.4.3 IO Pins

IO0 (Pin 10):	General Purpose Input or Output
IO1 (Pin 12):	General Purpose Input or Output
IO2 (Pin 16):	General Purpose Input or Output
IO3 (Pin 18):	General Purpose Input or Output
IO4 (Pin 20):	General Purpose Input or Output
IO5 (Pin 19):	General Purpose Input or Output
IO6 (Pin 17):	General Purpose Input or Output
IO7 (Pin 15):	General Purpose Input or Output

1.4.4 Power Supply Pins

VCC (Pin 1):	Internal 3.3V	Note: Not recommended to power downstream devices.
3_3V_T (Pin 13):	Target Power Supply 3.3V	
5V_T (Pin 14):	Target Power Supply 5V	
GND (Pin 6 & 9)	Ground	