

The diagram illustrates the JTAG connection between a 2x3/2.0mm connector and an FTSH-105-01-L-DU-K component. The connector has pins labeled TCK, TMS, TDI, TDO, and GND. The component has pins labeled TCK, TMS, TDI, TDO, and GND. The connections are as follows:

- TCK (Connector) to TCK (Component)
- TMS (Connector) to TMS (Component)
- TDI (Connector) to TDI (Component)
- TDO (Connector) to TDO (Component)
- GND (Connector) to GND (Component)

The component is labeled FTSH-105-01-L-DU-K and has a 2x3/2.0mm connector. The diagram also shows the internal wiring of the component, including a 100Ω resistor connected to the TCK pin and a 100Ω resistor connected to the TMS pin.

Programmable PSU

The image displays three circuit diagrams for different Programmable PSU configurations, each using a MIC2095 regulator. The regulators are labeled MIC2095-5.0V15-T9, MIC2095-3.3V15-T9, and MIC2095-2.8V15-T9. Each diagram shows the regulator's pin connections (IN, EN, GND, OUT, P-4) and the output filter components (10µF capacitor, 1µF capacitor, and 0.22µF capacitor). The output voltage is indicated as 5.0V, 3.3V, and 2.8V respectively. The detailed views on the right show the output filter and protection components, including a 10µF capacitor, a 1µF capacitor, a 0.22µF capacitor, and a 1K resistor. The output voltage is indicated as 5.0V, 3.3V, and 2.8V respectively.

Top Diagram: 5.0V Output

Regulator: MIC2095-5.0V15-T9

Output: 5.0V

Middle Diagram: 3.3V Output

Regulator: MIC2095-3.3V15-T9

Output: 3.3V

Bottom Diagram: 2.8V Output

Regulator: MIC2095-2.8V15-T9

Output: 2.8V

The diagrams illustrate the connection of an I2C Level Converter (U7: SN74LV4066ADR) between a microcontroller (U5: PTC893986DCUR) and an FPGA (U6: DF13-4P).

Microcontroller (U5) Connections:

- VCC: +3V3
- GND: GND
- EN: GND
- U5EF1: SCL1
- U5EF2: SDA1
- SCL1: SCL1
- SDA1: SDA1
- F_SCL1: SCL1
- F_SDA1: SDA1

FPGA (U6) Connections:

- VCC: +3V3
- GND: GND
- ESCL1: SCL1
- ESDA1: SDA1
- ESCL1: SCL1
- ESDA1: SDA1
- F_SCL1: SCL1
- F_SDA1: SDA1

I2C Level Converter (U7) Connections:

- VCC: +3V3
- GND: GND
- ESCL1: SCL1
- ESDA1: SDA1
- ESCL1: SCL1
- ESDA1: SDA1
- F_SCL1: SCL1
- F_SDA1: SDA1

Power Indicator

CANBUS Transceiver

LED Driver

change the led to 2,54

The diagram shows an LED driver circuit. The input is connected to a 5V supply through a 100nF capacitor and a 0.1 capacitor to ground. The input signal is connected to pin 1 of the SN74LV1T34DCK inverter. The output of the inverter (pin 4) is connected to the LED anode. The LED cathode is connected to ground. The LED is labeled JST-XH-03-PIN-ROUND-PAO with pins 1, 2, and 3.