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17.0 DB15 [T-Series Datasheet]

Overview

Number of Pins: **15**

Screw type: **#4-40**

Contacts: **Gold-coated**

Form factor: **D-Sub**

The DB15 connector has the potential to be used as an expansion bus, where the 8 EIO are data lines and the 4 CIO are control lines.

The CB15 is a connector board that provides convenient screw-terminals for the DB15 lines, but the CB15 is not required to access I/O on the DB15. Any method you see fit can be used to access the DB15 lines.

These 12 channels include an internal series resistor that provides overvoltage/short-circuit protection. For details, see the "Protection" section of 13.0 Digital I/O.

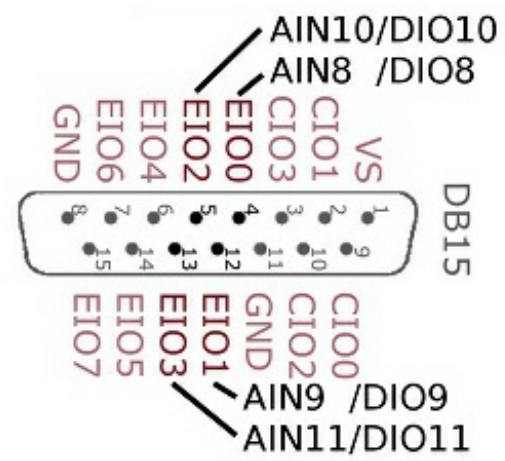
All digital I/O on T-series devices have 3 possible states: input, output-high, or output-low. For details, see the "Electrical Overview" section of 13.0 Digital I/O.

Pinout By Device

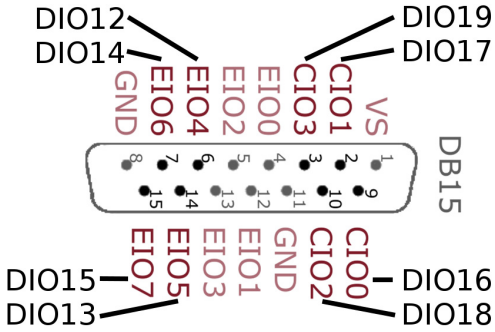
T4

The DB15 connector brings out 4 flexible I/O as well as 8 dedicated digital I/O.

The flexible I/O ports EIO0-EIO3 can be configured to be the analog inputs AIN8-AIN11 or the digital I/O ports DIO8-DIO11:

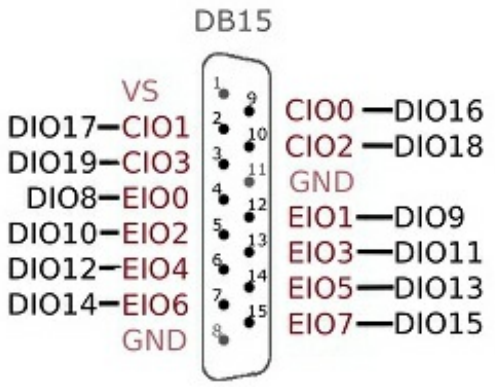


The dedicated digital I/O ports EIO4-CIO3 are DIO12-DIO19:



T7

The DB15 connector brings out 12 additional digital I/O, EIO0-CIO3, which can also be addressed as DIO8-DIO19:



Remarks

CB15

The CB15 terminal board connects to the DB15 connector. It provides convenient screw terminal access to the 12 I/O channels available on the DB15 connector. The CB15 is designed to connect directly to the DB15, or can connect via a standard 15-line 1:1 male-female DB15 cable.

RB12

The RB12 relay board provides a convenient interface for T-series devices to industry standard digital I/O modules, allowing electricians, engineers, and other qualified individuals to interface a LabJack with high voltages/currents. The RB12 relay board connects to the DB15 connector on the LabJack, using the 12 EIO/CIO lines to control up to 12 I/O modules. Output or input types of digital I/O modules can be used. The RB12 is designed to accept G4 series digital I/O modules from Opto22, and compatible modules from other manufacturers such as the G5 series from Grayhill. Output modules are available with voltage ratings up to 200 VDC or 280 VAC, and current ratings up to 3.5 amps.

OEM

OEM T-series devices have a separate header location to bring out the same connections as the DB15 connector. This OEM header location is labeled J2. The J2 holes are always present, but are obstructed when the DB15 connector is installed. Find the pinout, and other OEM information for J2 in OEM Versions.