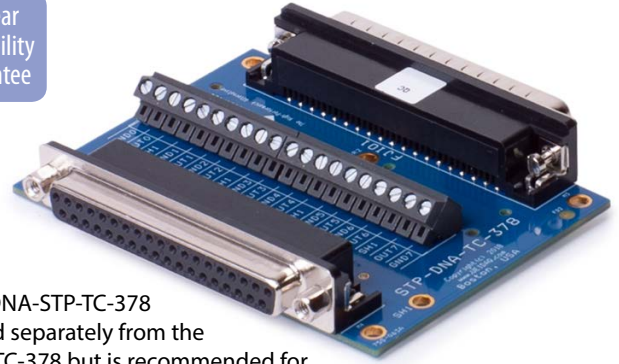


# DNA-STP-TC-378

## Screw Terminal / Interconnect for the DNx-TC-378

- Simplifies DNx-TC-378 wiring
  - Brings all connections out to screw terminal
  - Provides a pass-through DB-37 connector
- Provides a cold-junction compensation solution
- Small footprint:
  - 3.375" wide
  - 3.125" deep
  - 1.0" high

10-Year  
Availability  
Guarantee



The DNA-STP-TC-378 is sold separately from the DNx-TC-378 but is recommended for most applications as it both simplifies wiring and provides the requisite cold-junction compensation.

## General Description:

The DNA-STP-TC-378 is sold separately from the DNx-TC-378 but is recommended for most applications as it both simplifies wiring and provides the requisite cold-junction compensation. The DNA-STP-TC-378 provides cold junction compensation with three ADT 7420 temperature sensors mounted on the board. If the DNA-STP-TC-378 is not used with the DNx-TC-378, care should be taken to account for the cold junction error created where the DNx-TC-378 outputs are connected to the system's thermocouple inputs. Note that for customer convenience, the DNA-STP-TC-378 provides both screw terminals as well as a second DB37 connector that passes signals through to the DNA-TC-378 board. Both the screw terminals and pass-through connector may be used concurrently but only one should be used for connection to each channel.

The CJC temp sensors are located adjacent to both the pass through DB37 and the screw terminals so can be used for either connection method. Connections between the DNx-TC-378 and the DNA-STP-TC-378 are made via the DNA-CBL-37 or DNA-CBL-37S series cables.

Removable 4-40 x 0.375" standoffs allow the board to be mounted to any flat surface or to be simply placed on a table top without risk of shorting the signals to conductive items on the table.

## Technical Specifications:

Connectors	DB-37 - 37-pin female D-Sub; DB-37 - 37-pin male D-Sub Screw terminals for all active DNx-TC-378 pins
Temperature sensors	ADT 7420
CJC sensor accuracy	±0.1 °C typical, ±0.35 °C max (-40 °C to +85°C)
Operating temperature	-40°C to 85°C
Dimensions	3.375" wide 3.125" deep 1" high (including 0.375" standoffs)

## Ordering / Connection Options:

Part #	Description
DNA-CBL-37S	Shielded 37 conductor cable (3 foot standard, 1, 5, 10 and 20 foot lengths available)
DNA-CBL-37	Unshielded ribbon 37 conductor cable (3 foot length. Other lengths available on a special order basis)
DNA-STP-TC-378	37 terminal screw terminal panel with 3 CJC sensors (sold separately from the DNx-TC-378 board)