

Overview Specs Pin Diagrams PID Tutorial Motion Control Software APT Tutorials Feedback

Compact T-Cube Footprint
1 Amp4 W TEC Output
Microcontroller-Based PID Temperature Control
Subget LED Display
1 Experiment of the Compact Subget Compact
Temperature and Current Limit Sel Points
Compatible with Thermistor AD599 and AD592 Sensors
Remole Control via USE, Lead Centrol via Butinos and Adjustment Pot
Monitor Output Connection: Analog Control Input Connection

Microcontrol

Microc

The TTC001 T-Cube TEC Controller is designed for high-precision thermal control of small temperature sensitive components. It is designed to drive an external Peltier thermoelectric heater/cooler coupled to a standard thermistor or IC sensor. The highly precise, closed-loop control is suitable for many applications.

The various parameters, such as temperature set point, current limit, temperature sensor type, and PID parameters, are duptable from the front panel interface for quick face the parameters are provided in the parameters of the parameters are parameters. The parameters are parameters are parameters are parameters are parameters are parameters. The unit is equipped with a 5-digit, 7-septement limitinated deplays, the user-selectable deplays modes can be set to show actual temperature, set point temperature, and TEC current limit. The bipolar outputs stage allows both cooling and heating with currents up to 1 A. The TEC T-Cube is compatible with the LM1452 and our High-Power Laser Mounts in addition to the Thoristor TEC-2.5 - TH105 combination (TEC element - thermist respectively).

The TTC001 may be mounted directly onto an optical table and operated as a stand-alone unit with the included 5 V power supply. Included with the unit is very user friendly APT[™] software, which allows quick setup and control of the TTC001 and is the same software used to control all of our other T-Cube products. Advanced custom control sequences are also possible using the extensive ActiveX programming

Connection Cables
A CAB420-15 is required to connect the TTC001 T-Cube TEC Controller to a Thorabo's Laser Diode Mount. This cable is included with the TTC001 and has a length of 1.5 m. Additional cables can be ordered below.

T-Cube TEC Controller Based on your currency / country selection, your order will ship from Newton, New Jersey Docs Part Number - Universal +1 Qty Price Available / Ships +1]= T-Cube TEC Controller, 4W, Power Supply Included \$749.70 **√** Today

Compatible Power Supplies

The TPS101 supplies power for one T-Cube Laser Source or T-Cube TEC Controller. It provides 5 V and 2.0 A. A location-specific adapter plug is shipped with the power supply based on your location. The KCH301 and KCH601 USB Controller Hubs each consist of two parts: the hub, which can support up to three (KCH301) or six (KCH601) K-Cubes or T-Cubes, and a power supply that plugs into a standard wall outlet and powers the hub and any connected cubes. In addition, the hub provides USB connectivity to any docked K-Cube or T-Cube through a single USB connection.

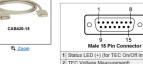
A KAP101 or KAP102 Adapter Plate (sold separately) is required for each T-Cube to operate on the KCH301 or KCH601 controller hub. The KAP101 is designed to adapt 60 mm wide T-Cubes to the hubs, while the KAP102 is designed to adapt 120 mm wide T-Cubes to the hubs. For more information on the USB Controller Hubs, see the full web presentation.

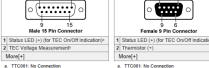
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+1	Qty	Docs	Part Number - Universal		Price	Available / Ships	
+1}⊒		E)	TPS101	5 V, 2.0 A Power Supply Unit for One TTC001 Module	\$37.33	4	Today
+1][KCH301	USB Controller Hub and Power Supply for Three K-Cubes or T-Cubes	\$494.70	Lead Time	
+1}⊒			KCH601	USB Controller Hub and Power Supply for Six K-Cubes or T-Cubes	\$598.74	4	3-5 Days
+1}⊒			KAP101	Adapter Plate for KCH Series Hubs and 60 mm Wide T-Cubes	\$57.38	√	Today
+1];;;			KAP102	Adapter Plate for KCH Series Hubs and 120 mm Wide T-Cubes	\$62.48	4	Today
Add To Cart							

CAB420-15 Connection Cables

The pin descriptions shown in the first two tables below denote the typical pin assignments used by Thorlabs' family of laser diode temperature controllers and laser diode mounts. The third table gives the physical pin connections between the 15-pin and 9-pin sides of the CAB420-15 cable.





	Pin Connections				
	15-Pin Side	9-Pin Side			
	1	1			
	2	4			
	3	3			
	4	2			
on)a	5	4			
	6	4			
	More[+]				

a. TTC001: No Connection h TED200C Series and TTC001: No Connection

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+1	Qty	Docs	Part Number - Universal			Available / Ships	
+1]⊒		B	CAB420-15	Temperature Controller Cable with 15-Pin D-Sub Connector, 1.5 m	\$74.97	√	Today
Add	To Cart						

Additional Temperature Controllers

T-Cube Temperature Controller 12 W Temperature Controller PROB Rack Controllers

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