

T-Cube LED Controllers

LEDD1A
T-Cube LED Driver
(Power Supply Sold Separately)



Features

- Easy-to-Use LED Driver
- Constant Current and Pulsed Current Modes
- Compact T-Cube Footprint
- Pulse Width and Frequency Controllable via External 0 - 5 V TTL Signal

The T-Cube LEDD1 Series is a variable intensity, compact LED driver that was designed for use with our mounted or mounted and collimated LEDs (MxxxL1, LEDCx).

The LED brightness can be adjusted via a potentiometer, which regulates the LED current up to a maximum of 700 mA (LEDD1) or 1 A (LEDD1A). This adjuster also turns the controller on and off. The LEDD1 Series offers a continuous current mode (CC) and an externally triggered pulsed mode (via BNC 5 V TTL input), which makes the LEDD1 an ideal choice for imaging with CCD cameras or photodiodes (CW mode) or for applications that strobe the LED with pulse width modulation. Each controller is shipped attached to a removable base plate that allows the T-Cube to be secured to an optical table. Please note that our T-Cubes do not include a power supply, but three power supply options are available below.

ITEM#	LEDD1	LEDD1A
Output Current	700 mA	1000 mA
Maximum Forward Voltage	13 V	10 V
Maximum Flash Frequency	10 kHz	
Minimum Strobe Pulse Width	50 μs	
Strobe Turn-On / Turn-Off Time	<25 μs	
Power Supply	15 VDC	
Operating Temperature	0 to 40 °C	
Storage Temperature	-40 to 70 °C	
Physical Size	2.4" x 2.4" x 1.8" 60 mm x 60 mm x 47 mm	

LED Interface Pin Connections



Pin Description	
1	LED +Ve
2	LED -Ve
3	N/C
4	N/C



ITEM#	\$	£	€	RMB	DESCRIPTION
LEDD1	\$ 249.00	£ 172.70	€ 221,10	¥ 2,102.60	T-Cube LED Driver, 700 mA Drive Current (Max)
LEDD1A	\$ 269.00	£ 186.50	€ 238,90	¥ 2,271.50	T-Cube LED Driver, 1000 mA Drive Current (Max)

T-Cube LED Driver Power Supply Options

The LEDD1 and LEDD1A can be powered using a TPS001 Single T-Cube Power Supply, a TPS008 8-Channel Power Supply, or the TCH002 T-Cube Hub and Power Supply. TPS001 and TPS008 plug into a standard wall outlet and provide +15 VDC. The TCH002 Hub and Power Supply consists of two parts: the hub, which can support up to six standard-footprint T-Cubes, and a power supply that plugs into a standard wall outlet and powers the hub, which in turn powers all the T-Cubes connected to the hub.



TCH002

Power Supply for a Single T-Cube Controller

- Provides +15 VDC



TPS001

Power Supply for Eight T-Cube Controllers

- Provides Eight +15 VDC Outputs
- An AC Adapter with 4 m Cable Enables Convenient Positioning

TPS008



ITEM#	\$	£	€	RMB	DESCRIPTION
TPS001	\$ 25.00	£ 17.40	€ 22,20	¥ 211.20	15 V Power Supply Unit for a Single T-Cube
TPS008	\$ 175.00	£ 121.40	€ 155,40	¥ 1,477.80	15 V Power Supply Unit for up to 8 T-Cubes
TCH002	\$ 726.90	£ 504.00	€ 645,40	¥ 6,138.00	T-Cube™ Controller Hub and Power Supply Unit