

Part # - TPS008

Item # TPS008 was discontinued on June 20, 2016. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

K-Cube and T-Cube Power Supply Options

- ▶ External Power Supplies for K-Cube and T-Cube Controllers
- ▶ USB Controller Hubs Provide Power and Communication for K-Cubes and T-Cubes



Overview Feedback

Features

- Power Supplies for Individual K-Cubes and T-Cubes
- Power Supplies for Up to Two (TPS002) or Eight (TPS008) K-Cubes and T-Cubes
- USB Controller Hubs Combine Power and Communications for Up to Three or Six K-Cubes or T-Cubes
- Adapter Plates for Using T-Cubes with USB Controller Hubs

Please note that with the exception of the USB Controller Hubs, each power supply is not compatible with all K-Cubes and T-Cubes. Please verify that the power supply can provide the required voltage and amperage for the K-Cubes and T-Cubes being used. See below for more details on choosing the correct option.



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 The KCH601 USB Controller Hub with installed K-Cube and T-Cube modules. One KAP101 adapter plate is used for each T-Cube on the hub.

| Item # | Max Number of K-/T-Cubes Powered | Compatible Motion Control Modules | Compatible Light Source Modules | Compatible Temperature Control Modules |
|--------|----------------------------------|--|--|--|
| KPS101 | One | KDC101 , KST101 , KBD101 , and TSC001 | LEDD1B | - |
| TPS101 | One | - | TLS001-635 and TLS001-1550 | TTC001 |
| TPS002 | Two | KPZ101 , TNA001/IR , TPA101 , and TSG001 | TLD001 | - |
| TPS008 | Eight | KDC101 , KST101 , KBD101 ^a , and TSC001 | LEDD1B | - |
| KCH301 | Three | All Variants ^b | | |
| KCH601 | Six | | | |

a. The TPS008 can supply power for up to four KBD101 Brushless DC Servo Drivers.
 b. A KAP101 or KAP102 Adapter Plate is required to use a T-Cube with the KCH301 or KCH601.

| Compact Motion Control Modules |
|---|
| K-Cube Controllers^a |
| Brushed DC Servo Motor Controller |
| Brushless DC Servo Motor Controller |
| Stepper Motor Controller |
| Single-Channel Piezo Controller |
| T-Cube Controllers ^a |
| Single-Channel Strain Gauge Reader |
| Dual-Channel NanoTrak Auto-Aligner |
| Quadrant Detector |
| Solenoid Controller |
| Compact Light Source & Driver Modules |
| Laser Diode Driver |
| Laser Sources |
| High Power LED Driver |
| Compact Temperature Control Module |
| Temperature Controller |

a. K-Cube and T-Cube modules are fully compatible with one another.



- ▶ Individual Power Supplies for One K-Cube or T-Cube
- ▶ Power Supplies for Multiple K-Cubes or T-Cubes

The KPS101 and TPS101 offer a simple power supply for individual K-Cubes or T-Cubes. The cubes need to be hooked up individually to a computer via a USB cable to use them with the motion control software.

The TPS002 supplies power for one or two K-Cubes or T-Cubes. The TPS008 Power Supply will provide power for up to eight K-Cubes or T-Cubes, or up to four KBD101 Brushless DC Servo Controllers. The cubes still need to be hooked up individually to a computer via a USB cable to use them with the motion control software.

A location-specific adapter plug is shipped with the power supply unit based on your location. The adapter plugs for the KPS101 are shown to the right.



[Click for Details](#)
Location-Specific Adapters
for the KPS101

Based on your currency / country selection, your order will ship from Newton, New Jersey

| +1 | Qty | Docs | Part Number - Universal | Price | Available / Ships |
|----|-----|------|---|----------|-------------------|
| | | | KPS101 15 V, 2.4 A Power Supply Unit for One K-Cube or T-Cube | \$25.71 | ✓ Today |
| | | | TPS101 5 V, 2.0 A Power Supply Unit for One Laser Source T-Cube | \$25.00 | ✓ Today |
| | | | TPS002 ±15 V/5 V Power Supply Unit for up to Two K-Cube or T-Cubes | \$105.00 | Lead Time |
| | | | TPS008 15 V, 8 A Power Supply Unit for up to Eight K-Cubes or T-Cubes | \$180.00 | Lead Time |

Add To Cart

USB Controller Hubs for K-Cubes and T-Cubes



[Zoom](#)



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- ▶ USB Controller Hubs for up to Three or Six K-Cubes or T-Cubes
- ▶ Provide Power and Communication with a Single USB Cable and a Single Power Connection
- ▶ Adapter Plate Connects T-Cube to Hub

These USB Controller Hubs have been designed specifically with multiple K-Cube and T-Cube operation in mind. The hub vastly reduces the number of USB and power cables required when operating multiple K-Cubes or T-Cubes. Furthermore, a USB output connector can be connected to the USB input on another unit, allowing multiple Controller Hubs to be connected together while still only using a single USB cable from the host control PC.

The hub draws a maximum current of 10 A; please verify that the cubes being used do not require a total current of more than 10 A.

The KCH301 and KCH601 Controller Hubs are compatible with all K-Cube and T-Cube modules. A KAP101 or KAP102 Adapter Plate (sold separately) is required for each T-Cube to operate on the 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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KCH301 USB Controller Hub with Installed K-Cube and T-Cube Modules (T-Cube is Shown on a KAP101 Adapter)

Based on your currency / country selection, your order will ship from Newton, New Jersey

| +1 | Qty | Docs | Part Number - Universal | Price | Available / Ships |
|----|-----|------|---|----------|-------------------|
| | | | KCH301 USB Controller Hub and Power Supply for Three K-Cubes or T-Cubes | \$475.00 | ✓ Today |
| | | | KCH601 USB Controller Hub and Power Supply for Six K-Cubes or T-Cubes | \$575.00 | ✓ Today |
| | | | KAP101 Adapter Plate for KCH Series Hubs and 60 mm Wide T-Cubes | \$55.00 | ✓ Today |
| | | | KAP102 Adapter Plate for KCH Series Hubs and 120 mm Wide T-Cubes | \$60.00 | ✓ |

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[15 V Solenoid Controller](#)

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