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KPS101 - January 26, 2022

Item # KPS101 was discontinued on January 26, 2022. 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



Hide Overview

OVERVIEW

Features

- Power Supplies for Individual K-Cubes™ and T-Cubes™
- Power Supply for Up to Two 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



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

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.

K-Cube™ Motion Control Modules

Brushed DC Servo Motor Controller

Brushless DC Servo Motor Controller

Fiber Alignment Controllers

Four-Channel Piezo Inertia Actuator Controller

PSD Auto Aligner

Single-Channel Piezo Controller

Single-Channel Strain Gauge Reader

Solenoid Controller

Stepper Motor Controller

Compact Light Source & Driver Modules

Laser Sources

Laser Diode Driver

High Power LED Driver

Compact Temperature Control Module

Temperature Controller

Power Supply Compatibility								
Item #	Max Number of Modules Powered	Motion Control Modules	Light Source & Driver Modules	Temperature Control Modules				
KPS101	One	KBD101, KDC101, KIM101, KSC101, and KST101	KLS635, KLS1550, and LEDD1B	-				
TPS101	One	-	-	TTC001				
TPS002	Two	KNA-VIS ^a , KNA-IR ^a , KPZ101, KPA101, and KSG101	KLD101	-				
KCH301	Three	Compatible with All Variants ^b						
KCH601	Six							

- a. The TPS002 can only support one KNA-VIS or KNA-IR controller and should not be used to power any additional units due to current limitations.
- b. A KAP101 or KAP102 Adapter Plate is required to use a T-Cube with the KCH301 or KCH601.

Hide K-Cube™ and T-Cube™ Power Supplies

K-Cube[™] and T-Cube[™] Power Supplies



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- Individual Power Supplies for One K-Cube or T-Cube
 - KPS101: For K-Cubes or T-Cubes with 3.5 mm Jacks
 - TPS101: Compatible with TTC001 Module
- Power Supply for up to Two K-Cubes or T-Cubes
 - TPS002: For K-Cubes or T-Cubes with Mini-DIN Input

Input Specifications				
Item # Mains Voltage Requirements				
KPS101	90 - 264 V, 0.5 A Max, 47 - 63 Hz			
TPS101	90 - 264 V, 0.4 A Max, 47 - 63 Hz			
TPS002	90 - 264 V, 0.8 A Max, 47 - 63 Hz			



Click for Details Region-Specific Adapters for KPS101

The KPS101 and TPS101 offer a simple power supply for select individual K-Cubes or T-Cubes, while the TPS002 supplies power for one or two select K-Cubes or T-Cubes. Please refer to the compatibility information in the list or table above. The TPS002 can only support one KNA-VIS or KNA-IR controller and should not be used to power any additional units due to potentially exceeding the current limit.

The cubes need to be hooked up individually to a computer via a USB cable to use them with the motion control software. A region-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.

Part Number	Description	Price	Availability
KPS101	15 V, 2.4 A Power Supply Unit with 3.5 mm Jack Connector for One K- or T-Cube	\$37.66	7-10 Days
TPS101	5 V, 2.0 A Power Supply Unit for One TTC001 Module	\$40.59	Today
TPS002	±15 V/5 V Power Supply Unit with Mini-DIN Connectors for up to Two K- or T-Cubes	\$119.78	Today

Hide USB Controller Hubs for K-Cubes™ and T-Cubes™

USB Controller Hubs for K-Cubes™ and T-Cubes™

together while still only using a single USB cable from the host control PC.



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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

Input Specifications				
Item # Mains Voltage Requirements				
KCH301 KCH601	80 - 264 V, 1.8 A Max, 47 - 63 Hz			

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



Click to Enlarge
KCH301 USB Controller Hub with
Installed
K-Cube and T-Cube Modules
(T-Cube is Shown on a KAP101
Adapter)

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.

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For more information on the USB Controller Hubs, see the full web presentation.

Part Number	Description	Price	Availability
KCH301	USB Controller Hub and Power Supply for Three K-Cubes or T-Cubes	\$558.94	Today
KCH601	USB Controller Hub and Power Supply for Six K-Cubes or T-Cubes	\$676.49	Today
KAP101	Adapter Plate for KCH Series Hubs and 60 mm Wide T-Cubes	\$64.83	7-10 Days
KAP102	Adapter Plate for KCH Series Hubs and 120 mm Wide T-Cubes	\$70.59	Today