

# USB Hub Datasheet

## 532018 USB HUB With Switches



---

# Contents

---

Contents.....	2
1. Description.....	3
2. Ordering information .....	3
3. Technical specifications.....	3
3.1. Using the switches.....	3
3.2. Connectors .....	3
3.3. Hub controller.....	3
3.4. Electrical characteristics .....	4
3.5. Dimensions.....	5
3.6. PCB.....	5

## 1. Description

532018-H-X is a four port USB 2.0 hub that has optional switches to quickly connect and disconnect devices. Ports will provide power even when disconnected, which enables keeping battery powered devices charged and minimize startup times for devices.

Optional high retention connectors prevent cables from coming loose in mobile or high vibration applications.

Power for the hub can be provided for a 2.5 mm circular DC connector or Phoenix Contact 5.08 mm pitch screw connectors (COMBICON MSTBA -series). Providing external power ensures reliability of the hub.

Enclosure flanges can be used to mount the USB hub under the table or in mobile application.

## 2. Ordering information

Text	Features
532018-H-0	4 port USB hub with high retention connectors
532018-H-S	4 port USB hub with high retention connectors and switches to detach devices from ports

Table 1

## 3. Technical specifications

### 3.1. Using the switches

Green indicator is on if the port is enabled. Power and data lines to the connected device will be disconnected.

### 3.2. Connectors

High retention force USB connectors are of [Samtec USBR-A](#) -series with minimum withdrawal force of 15 N.

### 3.3. Hub controller

Hub controller is Texas Instruments USB2514B with an option to customize VID, PID and other parameters on EEPROM. [Contact us](#) for more details on customization.

Ports remain disabled until the USB B connector is connected to a host.

### 3.4. Electrical characteristics

Description	Conditions	Min	Typical	Max	Unit
<b>Power supply</b>					
Supply voltage			12	15	V
Idle current draw			20		mA
Maximum current draw			2.5		A
Maximum current output per port			500		mA
<b>Operating conditions</b>					
Operating temperature	non-condensing	0		60	°C
Storage temperature		-40		85	°C

*Table 2*

### 3.5. Dimensions

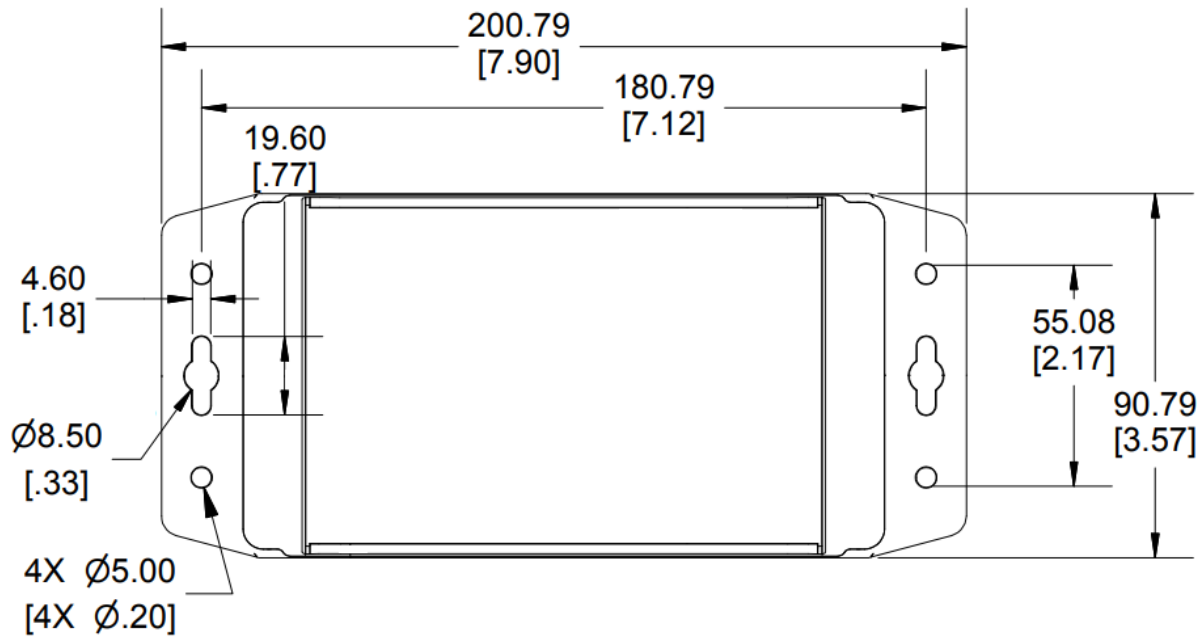


Image 1

### 3.6. PCB

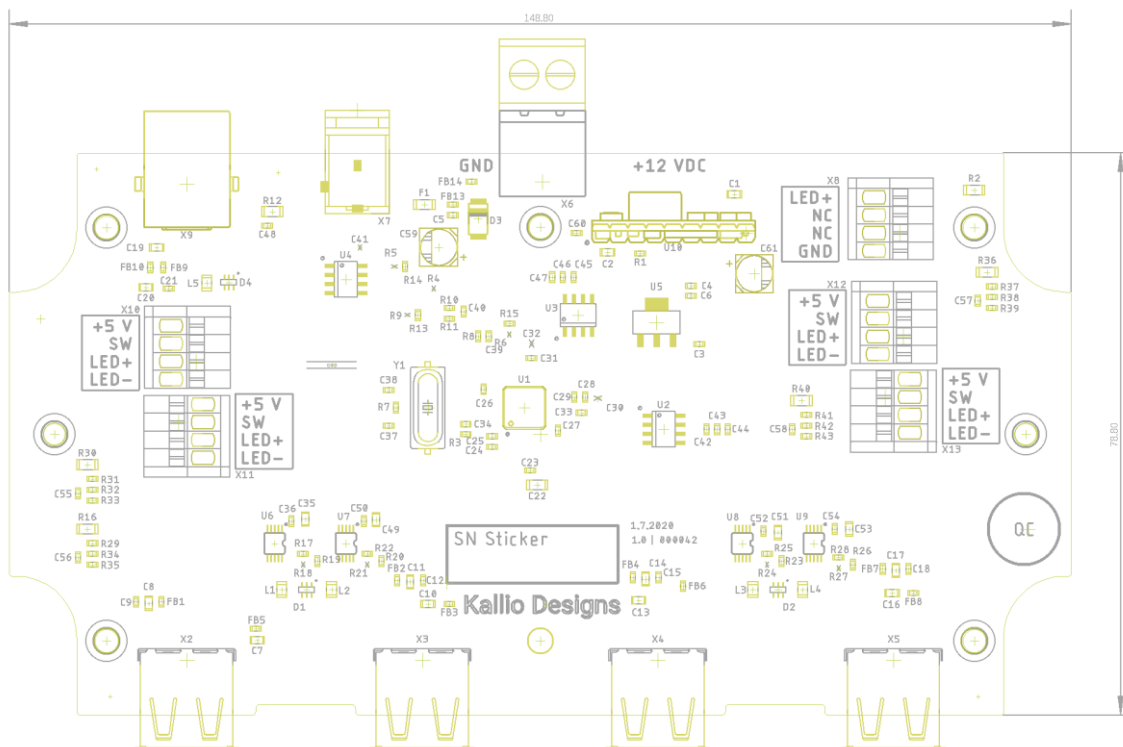


Image 2