

# Four Port Isolated USB 3.0 SuperSpeed Hub

## BB-USH304

**B+B SMARTWORX**

Powered by

**ADVANTECH**

[www.advantech-bb.com](http://www.advantech-bb.com)



### FEATURES

- Provides 4 x downstream USB 3.0 SuperSpeed ports
- 2,500 VDC isolation for upstream ports
- ESD protection up to  $\pm 8$  kV (Level 3)
- Data transfer speeds up to 5 Gbps
- Powered via a USB bus or 10~30 VDC external power source (not included, sold separately)
- Power status and downstream port speed LED indicators
- Lockable USB 3.0 cable included
- DIN rail mount adapter clip included

Model BB-USH304 is the world's first isolated USB 3.0 SuperSpeed Hub offering both isolation protection and super high data transfer rates – up to 5 Gbps.

Model BB-USH304, ultra-rugged 4-port isolated USB hub, offers 2500 VDC isolation for the upstream ports and four downstream USB 3.0 SuperSpeed ports. Isolation usually downgrades USB speed to 12 Mbps but, that is not the case with this hub boasting transfer speeds up to 5 Gbps. It can be powered via a USB bus or a 10-30 VDC external power source (not included, sold separately).

Users experience the confidence of isolation to protect equipment and systems while also operating power-hungry industrial devices.

### ORDERING INFORMATION

MODEL NUMBER	USB SPEED
BB-USH304	4-port isolated USB 3.0 SuperSpeed Hub

### ACCESSORIES - sold separately

BB-MDR-60-12 - Power Supply, 60W, 12VDC, 5 A Output, DIN Rail Mount

### NOTE:

(1) Because of the USB 3.0 isolation requirement, when BB-USH304 is connected to a USB 2.0 host, downstream ports will not accept USB 3.0 devices. In addition, cascading multiple BB-USH304 units is not supported.

(2) Refer to Figure 1. Derating Curve for the load current when using USB bus power.

### SPECIFICATIONS

CONNECTIVITY	
Ports	1 x Upstream (Type B) 4 x Downstream (Type A)
Compatibility	USB 3.0 SuperSpeed <sup>(1)</sup>
Downstream Port	(4) Type A Female – High Retention
Transfer Speed	5 Gbps shared by all downstream ports
Load Current	External power: 900 mA per port (max.) USB bus power: 700 mA shared by all ports (max.) <sup>(2)</sup>
GENERAL	
Housing	Plastic (ABS + PC)
Dimensions	132 x 80 x 32 mm (5.20 x 3.15 x 1.26 in)
Power Input	10 to 30 VDC
Power Consumption	760 mW (no load)
Operating Temperature	0 ~ +70 °C (32 ~ +158 °F) with External power 0 ~ +60 °C (32 ~ +140 °F) with USB bus power
Storage Temperature	-20 ~ +70 °C (-4 ~ +158 °F)
Storage Humidity	5 ~ 95% RH, non-condensing
PROTECTION	
Isolation Protection	2,500 VDC
ESD Protection	Contact discharge: $\pm 4$ kV (Level 2) Air discharge: $\pm 8$ kV (Level 3)

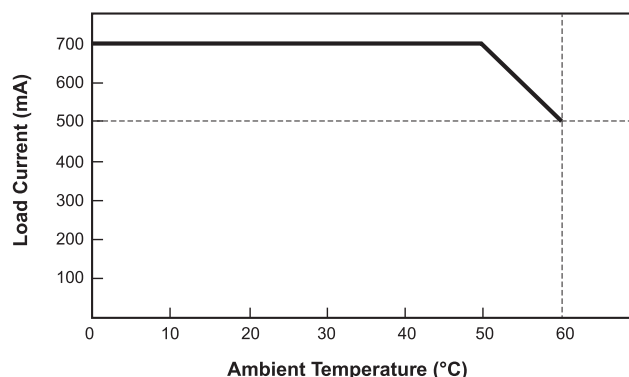


Figure 1. Derating Curve for Load Current Using USB Bus Power

All product specifications are subject to change without notice.

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