

# USB 3.0 SuperSpeed 4-Port Isolated Hub

Model USH304

B+B SMARTWORX

Powered by

ADVANTECH

www.advantech-bb.com



The world's first isolated  
USB 3.0 SuperSpeed hub

## PRODUCT FEATURES

- Expands one USB port to 4 USB ports
- 2,500 VDC isolation for upstream port
- ESD protection up to  $\pm 8$  kV (Level 3)
- Transfer speed is up to 5 Gbps
- 4 x downstream USB 3.0 SuperSpeed ports
- Can be powered via a USB bus or 10~30 VDC external power source
- Power status and downstream port speed LED indicators
- Lockable USB 3.0 cable included
- DIN rail mount adapter clip included

## 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 max. per port USB bus power: 700 mA max. shared by all ports <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)

### NOTES:

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

(2) Refer to Figure 1. "Derating Curve for the Load Current when using USB Bus Power."

## ORDERING INFORMATION

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

## ACCESSORIES - optional; sold separately

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

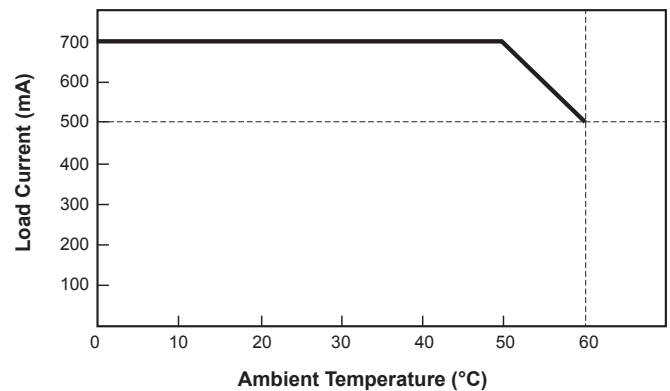


Figure 1. Derating Curve for Load Current Using USB Bus Power

All product specifications are subject to change without notice.

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