

Seven Port Industrial Grade USB Hubs

UHR207 & UHR307

B+B SMARTWORX

Powered by

ADVANTECH



PRODUCT FEATURES

- 4 kV Isolation (UHR307)
- High Retention USB Connectors
- ESD Protection – 15 kV Air
- Rugged Metal Case
- Wide Operating Temperature (-40 to 80°C)
- USB 2.0 – Refer to Specification Table
- Panel Mount Brackets & DIN Rail clip

The UHR207 and UHR307 are Industrial Grade Seven Port USB Hubs. Model UHR307 includes 4 kV isolation. They are designed and tested to meet heavy industrial EMC standards. High retention USB connectors hold standard USB cables tight and are perfect for high vibration applications – requiring up to 3.2 lbs-force to disconnect them.

The Heavy Industrial EMC specifications allow these hubs to operate where standard office grade hubs fail – such as near variable frequency drives, motor control centers, welding, and other large electrical loads.

4 kV Isolation (UHR307) between the upstream and downstream USB ports protects expensive equipment from dangerous ground loops and helps ensure data integrity.

They are powered from an external 10 to 30 VDC source. Two power connectors are provided – terminal block or threaded / lockable barrel plug. Refer to ordering information for power supply recommendation. Each downstream port provides up to 500 mA of power to connected USB devices.

ORDERING INFORMATION

MODEL NUMBER	USB SPEED
UHR307	Rugged 7 Port USB Hub, Isolated
UHR207	Rugged 7 Port USB Hub

ACCESSORIES

PS12VLB-INT-MED - Power Supply 12VDC, Medical Grade - US, EU, UK Blades

MDR-20-24 - DIN Rail Mount Power Supply 24VDC, 1.0A

USBAMB-15F - Type A Male to Type B Male, 15 ft. (4.6 m)

USBAMB-3F - Type A Male to Type B Male, 3 ft. (0.9 m) (Grey)

USBAMB-6F - Type A Male to Type B Male, 6 ft. (1.8 m) (Grey)

Learn More!

WATCH A DEMO!

Reliable USB Connectivity in Industrial Applications

www.bb-elec.com/USBTips

*Carrier data charges may apply.



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SPECIFICATIONS

USB INTERFACE	
Standards	USB 1.1 & 2.0
Upstream Port	(1) Type B Female – High Retention
Downstream Port	(7) Type A Female – High Retention
Speed	12 Mbps – Model UHR207 480 Mbps – Model UHR307 Multi-transaction Translator, 1 per port
Isolation	UHR307 - 4 kV – Upstream to Downstream
Surge Protection	+/- 0.5 kV DC Ports, +/- 1 kV Signal Ports
ESD	15 kV Air, 8 kV Contact
High Retention	USB Ports require 15 N (3.2 lbs-force) withdrawal force using standard USB Cable
POWER	
Source	External
Power Connector	Terminal Block or threaded barrel jack
Input Voltage	10 to 30 VDC
Power	30 Watts
Power TB	3 Position, 5.08 mm spacing, 28-12 AWG, Solid Wire
Barrel Jack	Locking / Threaded, 5.5 mm, Center Positive
Downstream Power	500 mA per port
INDICATORS	
Power	Green LED
Port Ready	Green LED

MECHANICAL	
Dimensions	20.3x12.1x3.49 cm (8 x 4.75 x 1.38 in)
Enclosure	IP 30, Metal
Weight	1.4 lbs – 0.64 kilograms
MTBF	UHR307 - 143330 Hours UHR207 - 151173 Hours
MTBF Calc. Method	MIL 217F Parts Count Reliability
ENVIRONMENTAL	
Operating Temperature	-40 to 80°C 0 to 40°C when using wall plug power supply
Storage Temperature	-40 to 85°C
Operating Humidity	0 to 95% Non-condensing
APPROVALS/CERTIFICATIONS	
Emissions	FCC Class B, CISPR Class B (EN55022) EN61000-6-2:2005 (Heavy Industrial) EN61000-4-2:2008 (ESD) +/- 8kV contact, +/-15 kV air EN61000-4-3:2006 (RI) 10 V/m, 80-1000 Mhz; 3 V/m 1.3 to 2.7 GHz
CE	EN61000-4-4:2004 (EFT Burst) +/- 2kV DC ports; +/- 1 kV signal ports EN61000-4-5:2005 (Surge) +/- 2 kV com; +/- 1 kV differential EN61000-4-6:2008 (CI) 10 Vrms, 0.15 to 80 MHz EN61000-4-8:2001 (Magnetic) 10 A/m, 50 Hz & 60 Hz
Other	IEC60068-2-27 (Shock) 50G Peak, 11 ms, 3 axes IEC60068-2-6 (Vibration) 140-500 Hz, 4G, 3 axes IEC60068-2-32 (Drop) 10 total drops from sides, corner, edges
UL	Class 1 Division 2 Listed File: E245458
UL INFORMATION	



Suitable for use in Class 1, Division 2, Groups A, B, C and D Hazardous Locations, or Nonhazardous locations only.
WARNING - EXPLOSION HAZARD – DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS.
WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR CLASS 1, DIVISION 2
 Install in accordance with control drawing number 9340R0.

Ind. Cont. Eq.
 For HAZ LOC
 3HTV
 E245458
 Class I, Div. 2, Groups A, B, C & D
 Temp. Code: T4

MECHANICAL DIAGRAM

