UHR304 & UHR204 Four Port Rugged USB Hubs

✓ 4 kV Isolation (Model UHR304)

✓ High Retention USB Connectors

✓ Level 4 ESD Protection – 15kV

✓ Rugged Metal Case – Panel & DIN Rail Mount

✓ Wide Operating Temperature (-40 to 80°C)

✓ USB 2.0 – Full Speed (12 Mbps) Model UHR304

✓ USB 2.0 – High Speed (480 Mbps) Model UHR204

The UHR304 and UHR204 are Industrial Grade Four Port USB Hubs. They are designed and tested to meet heavy industrial EMC standards and are UL listed for Class 1 Division 2 hazardous locations. High retention USB connectors hold standard USB cables tight and are perfect for high vibration applications - requiring up to 3.4 lbs-force to disconnect them. Model UHR304 has 4 kV Isolation between the upstream and downstream USB ports to protect expensive equipment from dangerous ground loops and to help ensure data integrity.

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.

They are powered from an external 10 to 30 VDC source. The non-isolated UHR204 may also be powered from the USB bus. 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. Refer to the specification table for additional information concerning downstream power.

Panel Mount Brackets and a DIN Rail Clip are included. Remember B&B Electronics when it comes to USB applications in harsh electrical environments.



Specifications

USB Interface					
Standards Upstream Port Downstream Port Speed	USB 1.1 & 2.0 (1) Type B Female – High Retention (4) Type A Female – High Retention 12 Mbps – Model UHR304 480 Mbps – Model UHR204 Multi-transaction Translator, 1 per port				
Isolation	4 kV – Upstream to Downstream Model UHR304				
Surge Protection ESD High Retention	+/- 0.5 kV DC Ports, +/- 1 kV Signal Ports 15 kV Air, 8 kV Contact USB Ports require 15 N (3.4 lbs-force) withdrawal force using standard USB Cable				
	Power				
Source	External (Required for Model UHR304) Model UHR204 may be bus powered. See Downstream power limitations				
Power Connector Input Voltage Power	Terminal Block or threaded barrel jack 10 to 30 VDC UHR204 – 16 Watts (External Source) UHR304 – 16 Watts (External Source)				
Power TB	3 Position, 5.08 mm spacing, 28-12 AWG, Solid Wire				
Barrel Jack	Locking / Threaded, 5.5 mm, Center Positive				
Downstream Power					
	Indicators				
Power	Green LED (External Power) Yellow LED (Bus Power)				
Port Ready	Green LED				
	Mechanical				
Dimensions Enclosure Weight MTBF UHR204 MTBF UHR304 MTBF Calc. Method	5.5 x 3.5 x 1.4 in (13.9 x 8.7 x 3.5 cm) IP 30, Metal 1.4 lbs (635 g) 211,773 Hours 190,999 Hours MIL 217F Parts Count Reliability				
Environmental					
Operating Temperat Storage Temperatu Operating Humidity	re -40 to 85℃ 0 to 95% Non-condensing				
Ordering Information					
UHR304 UHR204 PS5R-SC24	4 Port Industrial USB Hub, Isolated 4 Port Industrial USB Hub 12 VDC, 30 W Power Supply, DIN / Panel Mount				
PS12VLB-INT-MED					



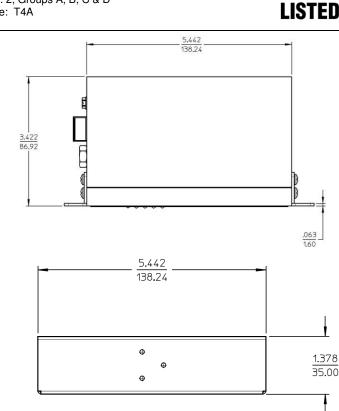
www.bb-elec.com orders@bb-elec.com support@bb-elec.com International Office: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 BSB ELECTRONICS :uropean Office: Westlink Commercial Park Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445

Approvals / Certifications				
Emissions	FCC Class B, CISPR Class B (EN55022)			
CE	EN61000-6-2:2005	(Heavy Indust	(Heavy Industrial)	
	EN61000-4-2:2008	(ESD)	+/- 8kV contact, +/-15 kV air (level 4)	
	EN61000-4-3:2006	(RI)	10 V/m, 80-1000 MHz; 3 V/m 1.3 to 2.7 GHz	
	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 I, 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: T4A





www.bb-elec.com orders@bb-elec.com support@bb-elec.com

International Office: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 BSB ELECTRONICS :uropean Office: Westlink Commercial Park Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445