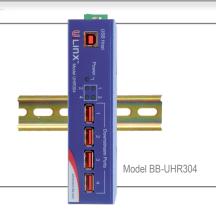
Four & Seven Port Industrial USB Hubs

Models BB-UHR204, BB-UHR304, BB-UHR207, BB-UHR307



www.advantech.com



PRODUCT FEATURES

- Expands one USB port to 4 or 7 USB ports (USB 2.0, see specification table)
- 4 kV isolation (Models BB-UHR304, BB-UHR307)
- 15 kV air, 8kV contact ESD protection
- Data rates: 12 Mbps at full speed or 480 Mbps at high speed (model specific)
- Wide operating temperature: -40 to +80 °C
- Rugged metal case desk, DIN rail or panel mount (brackets included)
- FCC, CE, UL, EMC heavy industrial
- · High retention USB port connectors
- Includes USB cable
- External power source required (not included, sold separately)

Models BB-UHR204, BB-UHR304, BB-UHR207 and BB-UHR307 are industrial-grade four and seven-port USB hubs. Models BB-UHR304 and BB-UHR307 include 4 kV isolation.

These hubs are designed and tested to meet heavy industrial EMC specifications allowing operation where standard office-grade hubs fail – such as near variable frequency drives, motor control centers, welding and other large electrical loads.

4 kV isolation (BB-UHR304, BB-UHR307) between the upstream and downstream USB ports protects expensive equipment from dangerous ground loops and helps ensure data integrity.

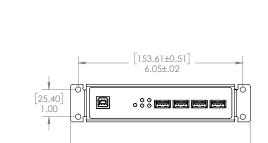
High retention USB connectors hold standard USB cables tight and are perfect for high vibration applications – requiring up to 3.2 lbs force to disconnect them.

These USB hubs are powered from an external 10 to 30 VDC source (not included, sold separately). Two power connectors are provided – terminal block or threaded/lockable barrel plug. Each downstream port provides up to 500 mA of power to connected USB devices. Model BB-UHR204 can also be bus-powered. (Refer to ordering information for power supply requirements and recommendation.)

MECHANICAL DIAGRAM - BB-UHR204, BB-UHR304

[86.34±0.51]

Units = inches [mm]



168.19

ORDERING INFORMATION

	MODEL NUMBER	DOWNSTREAM PORTS	UPSTREAM PORTS	SPEED	ISOLATION?	
	BB-UHR204*	4	1	480 Mbps, High speed	-	
	BB-UHR304	4	1	12 Mbps, Full speed	4kV	
	BB-UHR207	7	1	480 Mbps, High speed	-	
	BB-UHR307	7	1	12 Mbps, Full speed	4kV	

^{*} Bus powering option

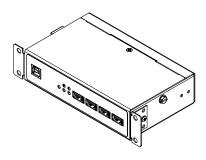
ACCESSORIES - sold separately

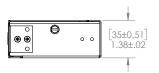
BB-PS12VLB-INT-MED - 12VDC Power Supply, Medical Grade; US, EU, UK Blades (Class 2)

BB-MDR-20-24 - 24VDC Power Supply, 1.0A, DIN Rail Mount (Class 2)

BB-USBAMBM-3F - Type A Male to Type B Male, Gray, 0.9 m (3 ft.)

BB-USBAMBM-6F - Type A Male to Type B Male, Gray, 1.8 m (6 ft.) one (included w/product)





All product specifications are subject to change without notice.

BB-UHRx04 & BB-UHRx07 2719ds



Four & Seven Port Industrial USB Hubs

Models BB-UHR204, BB-UHR304, BB-UHR207, BB-UHR307

Model BB-UHR207



SPECIFICATIONS

SPECII ICATION				
USB INTERFACE	JSB INTERFACE			
Standards	USB 1.1 & 2.0			
Upstream Port	(1) Type B Female – High Retention			
Downstream Ports	(7) Type A Female – High Retention (BB-UHR207, BB-UHR307) (4) Type A Female – High Retention (BB-UHR204, BB-UHR304)			
Speed	480 Mbps, High speed (BB-UHR204, BB-UHR207) 12 Mbps, Full speed (BB-UHR304, BB-UHR307) Multi-transaction Translator, 1 per port			
Isolation	4 kV – Upstream to Downstream (BB-UHR304, BB-UHR307)			
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 - required for BB-UHR304, BB-UHR307, BB-UHR207 (Power supply not included, sold separately.) Bus Powering - optional for BB-UHR204			
Power Connector	Terminal Block or Threaded Barrel Jack			
Input Voltage	10 to 30 VDC			
Power	16 Watts (BB-UHR304, BB-UHR204) 30 Watts (BB-UHR307, BB-UHR207)			
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			

MECHANIC				
Dimensions		BB-UHRx04: 16.82 x 8.63 x 3.50 cm (6.62 x 3.40 x 1.38 in)		
with brackets	S)	BB-UHRx07: 23.32 x 11.94 x 3.50 cm (9.18 x 4.70 x 1.38 in)		
Enclosure		IP30, metal		
Mounting		Desk, DIN rail or panel mount		
Weight		0.64 kg (1.4 lbs)		
		BB-UHR304 - 190999 hours		
Meantime Before Failure				
(MTBF)		BB-UHR307 - 143330 hours		
		BB-UHR207 - 151173 hours		
MTBF Calc.		MIL 217F Parts Count Reliability		
ENVIRONM	ENTAL			
Operating Temperature Storage Temperature		-40 to +80 °C (0 to +40 °C when using wall plug power supply)		
		-40 to 85 °C		
Operating H	umidity	0 to 95% Non-condensing		
APPROVAL	S, DIRECTIV	/ES, STANDARDS		
Approvals FCC, Class		B, CE		
Directives (EU)	2014/30/EU - Electromagnetic Compatibility Directive 2011/65/EU - Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)			
Standards (EMC)	EN 55032: Class B - Electromagnetic Compatibility of Multi Equipment - Emission Requirements EN 55024 - Information Technology Equipment - Immunity of tandards Limits and Methods of Measurement			
UL	Class 1/Division 2 Listed.			
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MECHANICAL DIAGRAM - BB-UHR207, BB-UHR307

Units = inches [mm]

