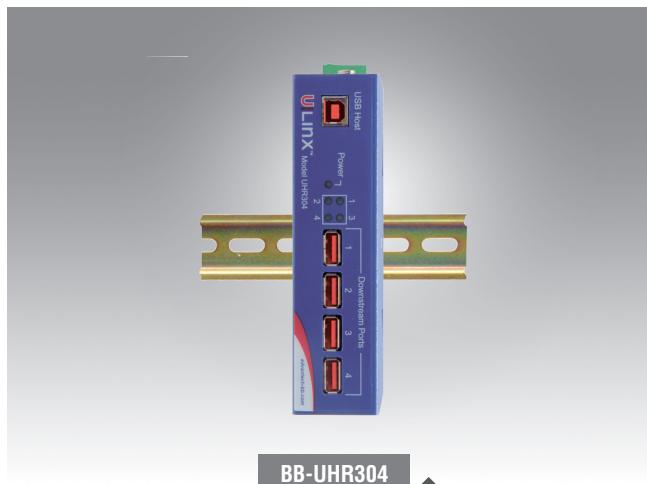# BB-UHR204
BB-UHR304
BB-UHR207
BB-UHR307

Four & Seven Port Industrial USB Hubs

BB-UHR304

Features

- Expands one USB port to 4 or 7 USB ports (USB 2.0, see specifications)
- 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 10-30 V_{DC} power source required (not included, sold separately)

Specifications

USB 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 (1.54kg-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 V_{DC}
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

Mechanical

Dimensions **(enclosure with brackets)**	BB-UHRx04: 168.2 x 86.3 x 35.1 mm BB-UHRx07: 233.2 x 119.4 x 35.1 mm
Enclosure	IP30, metal
Mounting	Desk, DIN rail or panel mount
Weight	0.64 kg

Meantime Between Failures (MTBF)	BB-UHR304 - 190999 hours BB-UHR204 - 211773 hours BB-UHR307 - 143330 hours BB-UHR207 - 151173 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability

Environmental

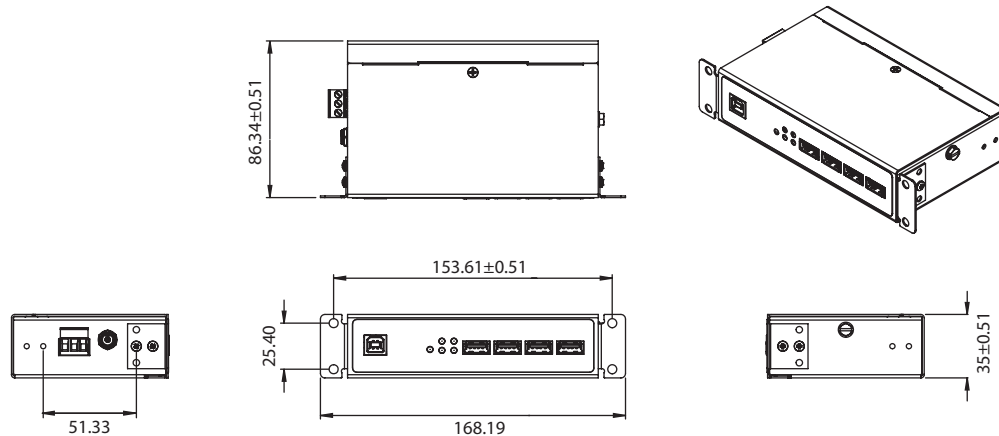|	
Operating Temperature	-40 to +80 °C (0 to +40 °C using wall plug power supply)
Storage Temperature	-40 to 85 °C
Operating Humidity	0 to 95% Non-condensing

Approvals, Directives, Standards

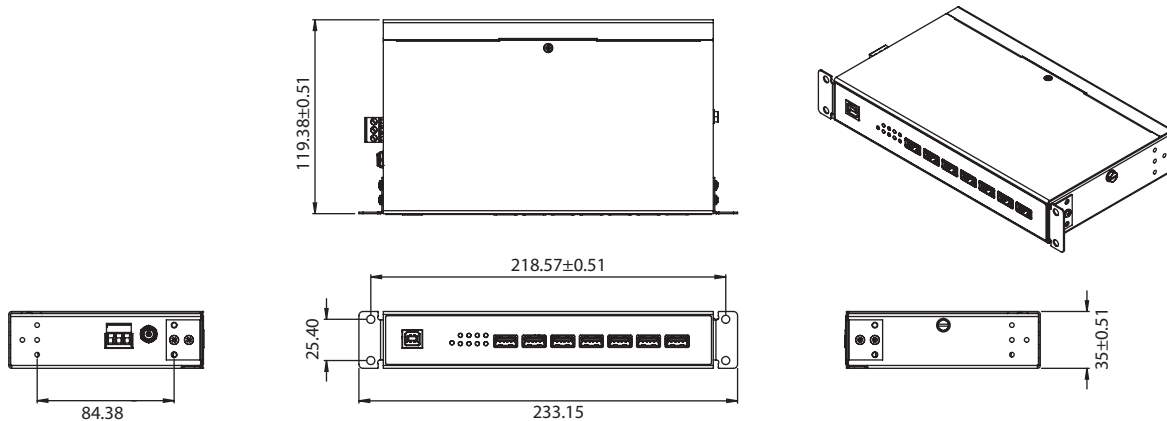|	
Approvals	FCC, Class B, CE, KCC (Model#s BB-UHR207, BB-UHR307)
Directives (EU)	2014/30/EU - Electromagnetic Compatibility Directive 2015/863/EU - Reduction of Hazardous Substances Directive (RoHS-3) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)
Standards (EMC)	EN 55032: Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement EN 61000-6-3+A1 (Class B) - Generic Emission Standard for Residential, Commercial and Light Industrial Environments EN 61000-6-2 - Generic Immunity Standard for (Heavy) Industrial Environments
UL	Class 1/Division 2 Listed

Dimensions

Unit: mm

BB-UHR204, BB-UHR304

86.34±0.51

153.61±0.51

25.40

51.33

168.19

35±0.51

BB-UHR207, BB-UHR307

119.38±0.51

218.57±0.51

25.40

84.38

233.15

35±0.51

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** $12V_{DC}$ Power Supply, Medical Grade; US, EU, UK Blades (Class 2)
- **BB-MDR-20-24** $24V_{DC}$ Power Supply, 1.0A, DIN Rail Mount (Class 2)
- **BB-USBAMBM-3F**   Type A Male to Type B Male, Gray, 0.9 m
- **BB-USBAMBM-6F**   Type A Male to Type B Male, Gray, 1.8 m one (included w/product)

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