

UHR207 & UHR307

Seven Port Industrial Grade USB Hubs

- ✓ 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.

Remember B&B Electronics when it comes to USB in harsh electrical environments.

Specifications

USB Interface	
Standards	USB 1.1 & 2.0 – Isolated Model UHR307 is limited to 12 Mbps USB 2.0. it will not work at USB 2.0 High Speed (480 Mbps). The non Isolated model UHR207 works at 1.5, 12, and 480 Mbps.
Upstream Port	(1) Type B Female – High Retention
Downstream Port	(7) Type A Female – High Retention
Speed	Limited to 12 Mbps on isolated model 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 (3.4 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	8 x 4.75 x 1.38 in (20.3x12.1x3.49 cm)
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
Ordering Information	
UHR307	Rugged 7 Port USB Hub, Isolated
UHR207	Rugged 7 Port USB Hub
Power Supplies	
PS5R-SC24	24V, 30W, DIN / Panel Mount
PS12VLB-INT-MED	12 VDC, 25W wall power supply with US, EU, UK Blades

Approvals / Certifications			
Emissions	FCC Class B, CISPR Class B (EN55022)		
CE	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
	EN61000-4-4:2004	(EFT Burst)	+/- 2kV DC ports; +/- 1 kV signal ports
	EN61000-4-5:2005	(Surge)	+/- 2 kV com; +/- 1 kV differential
	EN61000-4-6:2005	(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

