



ADVANTECH



PRODUCT FEATURES

- 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 3.2 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.

ORDERING INFORMATION

	MODEL NUMBER	USB SPEED
	UHR304	4 Port Industrial USB Hub, Isolated
	UHR204	4 Port Industrial 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

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

USBAMBM-3F - Type A Male to Type B Male, 3 ft. (0.9 M) (Grey)

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

Four Port Rugged USB Hubs

UHR304 & UHR204



SPECIFICATIONS

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USB INTERFACE			
Standards	USB 1.1 & 2.0		
Upstream Port	(1) Type B Female – High Retention		
Downstream Port	(4) Type A Female – High Retention		
Speed	12 Mbps – Model UHR304 480 Mbps – Model UHR204 Multi-transaction Translator, 1 per port		
Isolation	4 kV – Upstream to Downstream Model UHR304		
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 Model UHR304) Model UHR204 may be bus powered. See Downstream power limitations		
Power Connector	Terminal Block or threaded barrel jack		
Input Voltage	10 to 30 VDC		
Power	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	500 mA per port 100 mA per port when bus powered.		
INDICATORS			
Power	Green LED (External Power) Yellow LED (Bus Power)		
Port Ready	Green LED		

MECHANICA	\L	
Dimensions		13.9 x 8.7 x 3.5 cm (5.5 x 3.5 x 1.4 in)
Enclosure		IP 30, Metal
Weight		1.4 lbs (635 g)
MTBF UHR20)4	211,773 Hours
MTBF UHR30)4	190,999 Hours
MTBF Calc. N	Viethod	MIL 217F Parts Count Reliability
ENVIRONME	NTAL	
Operating Te	mperature	-40 to 80°C
Storage Tem	perature	-40 to 85°C
Operating Hu	ımidity	0 to 95% Non-condensing
APPROVALS/CERTIFICATIONS		
Emissions	FCC Class	B, CISPR Class B (EN55022)
CE	EN61000-4 EN61000-4 EN61000-4 EN61000-4	6-2:2005 (Heavy Industrial) 1-2:2008 (ESD) +/- 8kV contact, +/-15 kV air 1-3:2006 (RI) 10 V/m, 80-1000 Mhz; 3 V/m 1.3 to 2.7 GHz 1-4:2004 (EFT Burst) +/- 2kV DC ports; +/- 1 kV signal ports 1-5:2005 (Surge) +/- 2 kV com; +/- 1 kV differential 1-6:2008 (CI) 10 Vrms, 0.15 to 80 MHz 1-8:2001 (Magnetic) 10 A/m, 50 Hz & 60 Hz
Other	IEC60068-	2-27 (Shock) 50G Peak, 11 ms, 3 axes 2-6 (Vibration) 140-500 Hz, 4G, 3 axes 2-32 (Drop) 10 total drops from sides, corner, edges
UL	Class 1 Div	rision 2 Listed File: E245458
III INCORNA		



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

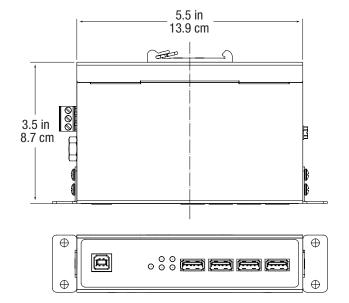
COMPONENT MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 Install in accordance with control drawing number 9340R0.

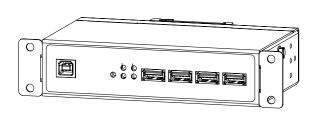
Ind. Cont. Eq. For HAZ LOC 3HTV E245458

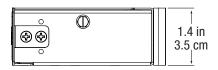
Class I, Div. 2, Groups A, B, C & D

Temp. Code: T4A

MECHANICAL DIAGRAM









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