

## Industrial Grade 4 Port USB Hubs

Models: UHR204 & UHR304

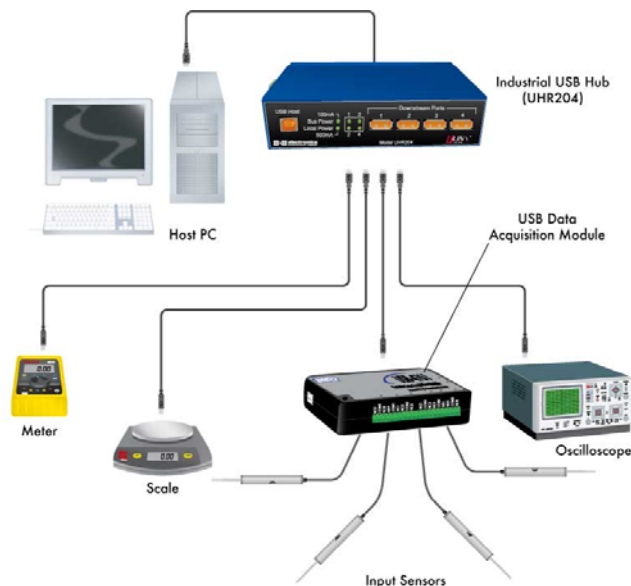
### Features

- ✓ 4000 V isolation meets EN60601-1-2 for medical applications (UHR304 only)
- ✓ High retention USB connectors ensure reliable connections
- ✓ Rugged metal case
- ✓ Flexible DIN or panel mounting options (included)
- ✓ 8 kV contact, 15 kV air ESD surge protection
- ✓ Wide temperature range of -40 to 80°C
- ✓ USB 2.0 and 1.1 compatible
- ✓ LED's to indicate power and port status
- ✓ Includes a 2 meter USB cable
- ✓ USB Bus powered (UHR204 only) or externally powered
- ✓ Redundant power inputs (10 to 30VDC) via terminal block or locking barrel jack



### Functional Description

The UHR204 and UHR304 are four port Industrial Grade USB hubs Model UHR204 supports USB 2.0 Hi-speed data rates of 480Mbps. Model UHR304 supports Full-speed data rates of 12Mbps but also isolates the up stream ports from the downstream ports. Features like the rugged metal case, isolation, versatile mounting, high ESD protection, wide temperature ranges and high retention USB connectors set these products apart from standard office grade USB hubs.



### Suitable Applications

- Industrial
- Instrumentation
- OEM's
- Vehicle
- Medical
- Security

### Ordering Information

Model Number	Description
UHR204	Industrial 4 Port USB Hub (480, 12, 1.5Mbps speeds)
UHR304	Isolated, Industrial 4 Port USB Hub (12, 1.5Mbps speeds)
Accessories	
USBAMBM-3F	3 ft (1 M) USB Cable
USBAMBM-6F	2 m (6ft) USB Cable (One included)
MDR-20-24	DIN Rail Mount, 24VDC, 1A Power Supply
PS12VLB-INT-MED	Medical Grade 12VDC Pwr Supply, 4kV Isolation, Locking Barrel – US, EU, UK

## Specifications

## USB Interface

Standards	USB 1.1 and 2.0 compatible
Upstream port	(1) USB Type B Female – High retention (withdrawal >15 N)
Downstream ports	(4) USB Type A Female – High retention (withdrawal > 15 N)
Speed	480Mbps (URH204 only), 12Mbps, 1.5Mbps Features Multi-transaction translator, one transaction translator per port.
Isolation	4 kV, Upstream port isolated from Downstream ports (UHR304 only)
ESD	8 kV contact, 15 kV air
Port LED's	Ready or fault (per port)

## Power

USB Bus Power	5 VDC from USB bus power (UHR204 only)
Input Voltage	10 to 30 VDC, Terminal Block or Barrel Jack (can be used as redundant inputs)
Power	UHR204: 16 Watts, External Power Supply UHR304: 16 Watts, External Power Supply
Power LED's	Power On (UHR304) or Source of Power (UHR204)
Down Stream Power	Bus Powered = up to 100mA (per port) Local (External) Power = up to 500mA (per port)

## Mechanical

Dimensions	5.5 x 3.5 x 1.4 in (139 x 87 x 35 mm) without panel brackets 6.6 x 3.5 x 1.4 in (154 x 87 x 35 mm) with panel brackets
Weight	UHR204, 0.85 lbs (380 g); UHR304 0.86 lbs (390 g)
Mounting	Panel and DIN mounting brackets included

## Environmental

Operating Temperature	-40 to 80°C (-40 to 176°F)
Storage Temp	-40 to 85°C (-40 to 185°F)
Operating Humidity	0 to 95 % (Non-condensing)
MTBF (UHR204)	211,773 hours, Parts Count Reliability Prediction
MTBF (UHR304)	190,999 hours, Parts Count Reliability Prediction

## Approvals / Certifications

Emissions	FCC Class B, CISPR Class B (EN55022)		
CE	EN61000-6-2:2005	(Heavy Industry)	
	EN61000-4-2:2008	(ESD)	+/-8kV Contact, +/-15kV Air
	EN61000-4-3:2006	(RI)	10V/m, 80-1000MHz; 3V/m, 1.3 to 2.7 GHz
	EN61000-4-4:2004	(EFT Burst)	+/-2kV DC ports; +/-1kV signal ports
	EN61000-4-5:2005	(Surge)	+/-2kV com, +/-1kV diff.
	EN61000-4-6:2005	(CI)	10Vrms, 0.15 to 80 MHz
	EN61000-4-8:2001	(Magnetic)	10A/m, 50Hz & 60Hz (UHR304 only)
Shock	IEC60068-2-27	50G peak, 11ms, 3 axes	
Vibration	IEC60068-2-6	10-500Hz, 4G, 3 axes	
Freefall (Drop)	IEC60068-2-32	10 total drops from sides, corner and edges	
Medical (non life-support) (UHR304 only)	IEC60601-1-2:2007	Medical electrical equipment, Electromagnetic compatibility (EMC)	

Dimensions

