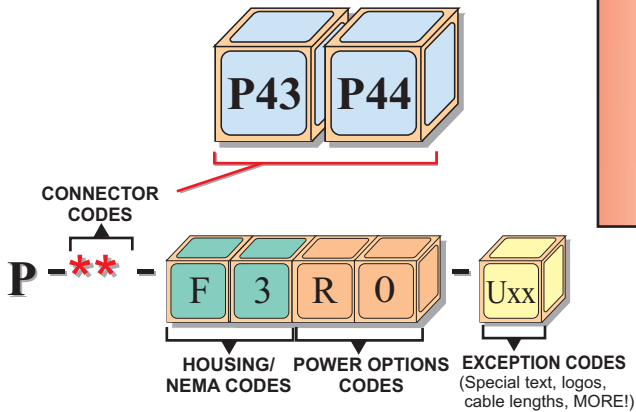


# Industrial 4:1 USB Hub



This industrial GracePort® USB four-port hub provides for reliable communication with USB peripherals both inside or outside a control panel. High retention USB connectors ensure that even the physical connection remains intact in a variety of industrial environments.

High ESD protection provides long life in electrically harsh environments. Full speed (480 Mbps) USB 2.0 support allows connectivity with the latest computer technology. The high retention USB ports on the upstream and downstream connections are compatible with standard off-the-shelf USB cables and do not come loose during operation. When installed in your system, the USB hub appears as a non-branded USB hub.

## Features

- High retention (1:4; 4:1)USB connectors
- ESD protection - 8 kV contact, 15 kV air
- Powered from USB Host
- Available stand-alone or a part of unlimited GracePort® combinations

## USB HUB (ONLY) SPECIFICATIONS

### USB TECHNOLOGY

USB Compatibility 1.1 and 2.0  
Speed 1.5, 12, and 480 Mbps  
Connectors Type A & B High Retention (15 N / 3.4 lbs-force withdrawal)  
Installs as an un-branded USB Hub

### POWER

Source 5 VDC from USB Host  
Power Consumption 2.5 Watts Maximum  
Downstream Power Provides 100 mA per port to power downstream USB devices

### MECHANICAL

Dimensions 1.4 x 2.4x 0.7 in (35.6 x 51 x 18 mm)  
Weight 0.8 oz (22.7 g)  
MTBF 552,747, Calc. Method MIL 217F Parts Count Reliability

### ENVIRONMENTAL

Operating Temperature -40 to 80°C  
Storage Temperature -40 to 85°C  
Operating Humidity 0 to 95% Non-condensing

**Note:** Call factory for extended temperature ratings on GracePort® assemblies.

### APPROVALS / CERTIFICATIONS

Emissions FCC Class B, CISPR Class B (EN55022)  
CE EN61010/EN60950 (Foreign Power Outlets)  
EN61000-6-1:2007 (Light Industrial)  
EN61000-4-2:2008 (ESD) +/-8kV Contact, +/-15kV Air (To Connector Shells)  
EN61000-4-3:2006 (RI) 10V/m, 80-1000MHz; 3V/m, 1.3 to 2.7 GHz  
EN61000-4-4:2004 (EFT Burst) +/- 500V signal ports  
EN61000-4-6:2005 (CI) 3Vrms, 0.15 to 80 MHz



### P-P44-M3RF3

4-port USB Hub, GFCI Outlet, 3A Circuit Breaker

## Interface Codes:

### P43

(4) Type A - Female outside and (1) Type B - Female inside

### P44

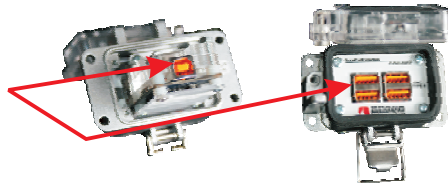
(4) Type A - Female inside and (1) Type B - Female outside

### P-P1P44R2-M8RF3

Weatherproof In-Use Assembly, 4-Port USB Hub, Serial Port, Ethernet Port, GFCI Outlet, 3A Circuit Breaker



**High Retention USB Connectors**

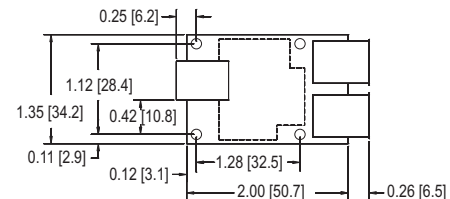
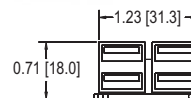


### P-P43-B3RX

4-port USB Hub Front & Back View

### C-USB4-Hub

Stand-Alone 4-Port USB PCB with High Retention Connectors



## SPECIFICATIONS: ELECTRICAL

Low voltage (data), limited to 30 VDC  
High voltage supply  
120 VAC  
230-240 VAC, 16A (CE only)

**RoHS**  
Upon Request

## SPECIFICATIONS: MECHANICAL

Housing: Cast aluminum base  
Latch: Type 304 Stainless Steel (1CR18NI19)  
Cover: Polycarbonate, UV rated, V-O Flame rated  
Gasket: Thermoplastic elastomer  
Insert Material: Acrylic UL94HB