

# UPort™ 404/407

## 4 and 7-port industrial-grade USB hubs



The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.

- > Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
- > USB-IF certification
- > Dual power inputs (power jack and terminal block)
- > 15 KV ESD Level 4 protection for all USB ports
- > Rugged metal housing
- > DIN-Rail and wall mountable
- > Comprehensive diagnostic LEDs
- > Choose bus power or external power (UPort™ 404)



### Introduction

The UPort™ 404 and UPort™ 407 are industrial-grade USB 2.0 hubs that expand 1 USB port into 4 and 7 USB ports, respectively. The hubs are designed to provide true USB 2.0 Hi-Speed 480 Mbps data transmission through each port, even for heavy-load applications. The UPort™ 404/407 have received USB-IF Hi-Speed certification, which is an indication that both products are reliable, high quality USB 2.0

hubs. In addition, the hubs are fully compliant with the USB Plug & Play spec and provide a full 500 mA of power per port, ensuring that your USB devices will function properly. The UPort™ 404/407 hubs' support of 12-40 VDC power makes them ideal for mobile applications. Externally powered USB hubs are the only way to guarantee the broadest compatibility with USB devices.

### USB-IF Certification

The UPort™ 404 and UPort™ 407 USB 2.0 industrial-grade USB hubs have passed USB-IF (USB Implementers Forum) certification. USB-IF verifies a number of strict electrical requirements for the high-speed USB operation of USB hubs designed to the USB 2.0 specification. This means that the UPort™ 404/407 support Hi-Speed USB 2.0 for

up to 480 Mbps USB transmission, which is fully compliant with interoperability requirements, is enough power for devices to function, and provides for a successful transition back to high-speed operation from the suspend state.

### ESD Level 4 Protection

Electrostatic discharge (ESD) could be as severe as having more than one thousand volts of ESD with a high rise time (dv/dt) break through the junction layer of protective devices. In order to avoid serious

damage, Moxa's UPort™ 404/407 USB hubs provide ESD level 4 (contact 8 KV, air 15 KV) protection, which increases the quality and value of the user's end-product.

### Specifications

#### USB Interface

- Compliance:** USB 1.1/2.0 compliant
- Upstream:** 1 USB port, Type B connector
- Downstream:**
  - UPort™ 404: 4 USB ports, Type A connectors
  - UPort™ 407: 7 USB ports, Type A connectors
- Speed:** 480 Mbps (Hi-Speed USB) and 12 Mbps (Full-Speed USB)
- Supply Current:** 500 mA max. per channel

#### Physical Characteristics

- Housing:** Aluminum
- Dimensions:**
  - UPort™ 404: 80 x 35 x 130 mm (3.15 x 1.38 x 5.12 in)
  - UPort™ 407: 100 x 35 x 192 mm (3.94 x 1.38 x 7.55 in)

#### Environmental Limits

- Operating Temperature:**
  - Standard Models: 0 to 60°C (32 to 140°F)
  - Wide Temperature Models: -40 to 85°C (-40 to 185°F)
- Operating Humidity:** 5 to 95% RH

#### Storage Temperature:

- Standard Models: -20 to 75°C (-4 to 167°F)
- Wide Temperature Models: -40 to 85°C (-40 to 185°F)

**Regulatory Approvals:** EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61000-6-2, EN61000-6-4, FCC Part 15 Class A, UL508 (Maximum Surrounding Air Temperature: 60°C), LVD

#### Power Requirements

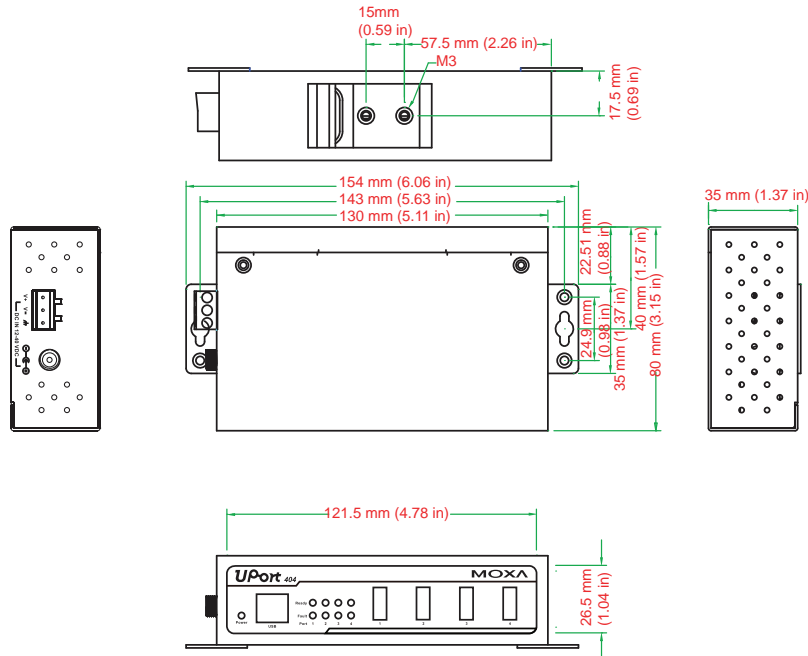
- Input Voltage:** 12 to 40 VDC external power
- Power Consumption:**
  - UPort™ 404: 1300 mA @ 12 VDC, 690 mA @ 24 VDC, 470 mA @ 36 VDC
  - UPort™ 407: 2300 mA @ 12 VDC, 1130 mA @ 24 VDC, 790 mA @ 36 VDC

#### Warranty

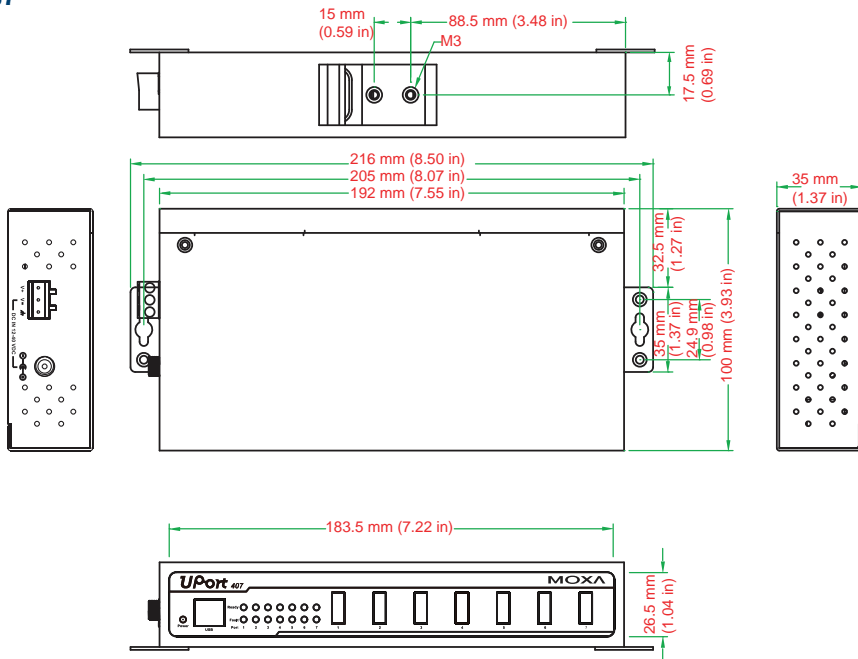
- Warranty Period:** 5 years
- Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

Dimensions

UPort™ 404



UPort™ 407



Ordering Information

Available Models

- UPort™ 404: 4-port industrial USB hub, adaptor included, 0 to 60°C operating temperature
- UPort™ 407: 7-port industrial USB hub, adaptor included, 0 to 60°C operating temperature
- UPort™ 404-T: 4-port industrial USB hub, adaptor included, -40 to 85°C operating temperature
- UPort™ 407-T: 7-port industrial USB hub, adaptor included, -40 to 85°C operating temperature

Package Checklist

- UPort™ 404 or UPort™ 407 industrial-grade USB hub
- USB-IF certified cable
- Power adaptor
- Quick Installation Guide (printed)
- Warranty Card

Optional Accessories (can be purchased separately)

- Wall Mount Kit: Metal plates and screws
- DK-35A: Mounting Kit for 35-mm DIN-Rail
- Din-Rail Kit: Din-Rail kit for the UPort™ 400 Series

