

# UPort 404/407 Series

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



### Features and Benefits

- Hi-Speed USB 2.0 for up to 480 Mbps USB data transmission rates
- 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
- Chooses bus power or external power (UPort 404)

### Certifications



## 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 rates 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-and-play spec and provide a full 500 mA of power per port, ensuring that your USB devices function properly. The UPort® 404 and UPort® 407 hubs' support 12-40 VDC power, which 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 received the 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, has enough power for devices to function, and facilitates a smooth transition back to high-speed operation from the suspended state.

### ESD Level 4 Protection

Electrostatic discharge (ESD) could be as severe as having more than 1,000 volts of ESD with a high rise-time (dv/dt) breaking 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

|                  |                                            |
|------------------|--------------------------------------------|
| Speed            | 12 Mbps, 480 Mbps                          |
| USB Connector    | USB Type B                                 |
| USB Standards    | USB 1.1/2.0 compliant                      |
| No. of USB Ports | UPort 404 models: 4<br>UPort 407 models: 7 |

### Power Parameters

|               |                                                                      |
|---------------|----------------------------------------------------------------------|
| Input Current | UPort 404 models: 1.3 A @ 12 VDC<br>UPort 407 models: 2.3 A @ 12 VDC |
| Input Voltage | 12 to 40 VDC                                                         |

## Physical Characteristics

|              |                                                                                                                                                                                           |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing      | Aluminum                                                                                                                                                                                  |
| Dimensions   | UPort 404 models: 80 x 35 x 130 mm (3.15 x 1.38 x 5.12 in)<br>UPort 407 models: 100 x 35 x 192 mm (3.94 x 1.38 x 7.56 in)                                                                 |
| Weight       | Product with package:<br>UPort 404 models: 855 g (1.88 lb)<br>UPort 407 models: 965 g (2.13 lb)<br>Product only:<br>UPort 404 models: 850 g (1.87 lb)<br>UPort 407 models: 950 g (2.1 lb) |
| Installation | Wall mounting<br>DIN-rail mounting (optional)                                                                                                                                             |

## Environmental Limits

|                                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| Operating Temperature                  | Standard models: 0 to 60°C (32 to 140°F)<br>Wide temp. models: -40 to 85°C (-40 to 185°F)   |
| Storage Temperature (package included) | Standard models: -20 to 75°C (-4 to 167°F)<br>Wide temp. models: -40 to 85°C (-40 to 185°F) |
| Ambient Relative Humidity              | 5 to 95% (non-condensing)                                                                   |

## Standards and Certifications

|                        |                                                                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC                    | EN 61000-6-2/-6-4                                                                                                                                                                                                                                   |
| EMI                    | CISPR 32, FCC Part 15B Class A                                                                                                                                                                                                                      |
| EMS                    | IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m<br>IEC 61000-4-4 EFT: Power: 2 kV<br>IEC 61000-4-5 Surge: Power: 1 kV<br>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 0 V/m<br>IEC 61000-4-8 PFMF |
| Environmental Testing  | IEC 60068-2-1                                                                                                                                                                                                                                       |
| Safety                 | UL 508                                                                                                                                                                                                                                              |
| Freefall               | IEC 60068-2-34                                                                                                                                                                                                                                      |
| International Approval | UPort 407: BSMI<br>UPort 407: KC                                                                                                                                                                                                                    |

## Declaration

|               |                   |
|---------------|-------------------|
| Green Product | RoHS, CRoHS, WEEE |
|---------------|-------------------|

## MTBF

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| Time      | UPort 404 models: 1,490,340 hrs<br>UPort 407 models: 1,111,361 hrs |
| Standards | Telcordia (Bellcore), GB                                           |

## Warranty

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| Warranty Period | 5 years                                                              |
| Details         | See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a> |

## Package Contents

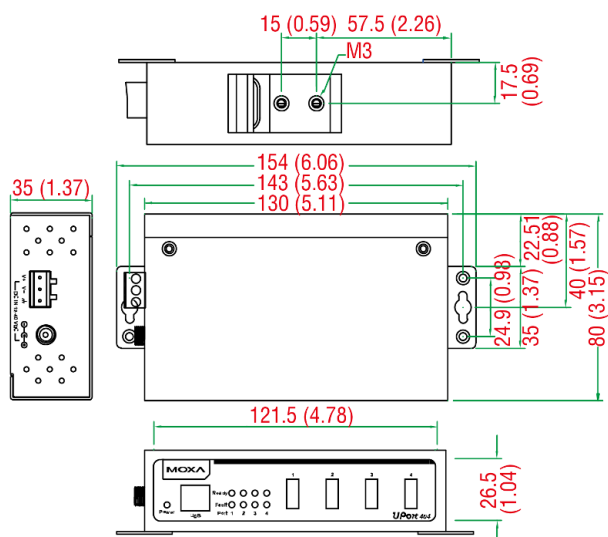
|                  |                                  |
|------------------|----------------------------------|
| Device           | 1 x UPort 404/407 Series USB hub |
| Installation Kit | 1 x wall-mounting kit            |

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| Cable         | 1 x USB type A male to USB type B male                                              |
| Power Supply  | 1 x power adapter, universal (standard temperature models only)                     |
| Documentation | 1 x quick installation guide<br>1 x substance disclosure table<br>1 x warranty card |

## Dimensions

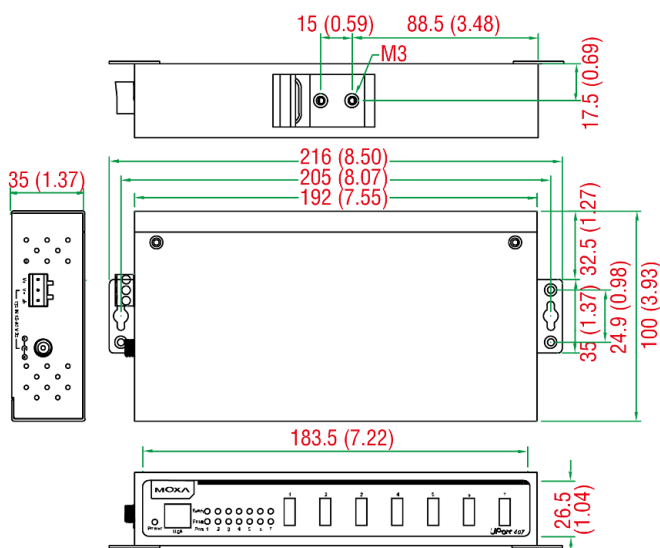
### UPort 404

Unit: mm (inch)



### UPort 407

Unit: mm (inch)



## Ordering Information

| Model Name              | USB Interface | No. of USB Ports | Housing Material | Operating Temp. | Power Adapter Included |
|-------------------------|---------------|------------------|------------------|-----------------|------------------------|
| UPort 404               | USB 2.0       | 4                | Metal            | 0 to 60°C       | ✓                      |
| UPort 404-T w/o adapter | USB 2.0       | 4                | Metal            | -40 to 85°C     | –                      |
| UPort 407               | USB 2.0       | 7                | Metal            | 0 to 60°C       | ✓                      |
| UPort 407-T w/o adapter | USB 2.0       | 7                | Metal            | -40 to 85°C     | –                      |

## Accessories (sold separately)

### Cables

|                |                                      |
|----------------|--------------------------------------|
| CBL-USBA/B-100 | USB 2.0 cable, type A-to-type B, 1 m |
|----------------|--------------------------------------|

### Power Adapters

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| PWR-12300-WPEU-S2   | Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature    |
| PWR-12300-WPCN-S2   | Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature    |
| PWR-12300-WPUSJP-S2 | Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature |
| PWR-12300-WPUK-S2   | Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature    |
| PWR-12300-WPAU-S2   | Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature    |
| PWR-12300-WPKR-S2   | Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, KR plug, 0 to 40°C operating temperature    |

DIN-Rail Mounting Kits

|          |                                 |
|----------|---------------------------------|
| DK-25-01 | DIN-rail mounting kit, 2 screws |
|----------|---------------------------------|

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