

UPort® 404/407

4 and 7-port industrial-grade USB hubs



- > 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, has 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 1,000 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

Weight: Product only:

UPort 404: 850 g (1.87 lb)

UPort 407: 950 g (2.1 lb)

Packaged:

UPort 404: 855 g (1.88 lb)

UPort 407: 965 g (2.13 lb)

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)

Storage Temperature:

Standard Models: -20 to 75°C (-4 to 167°F)

Wide Temperature Models: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

Safety: UL 508
EMC: EN 55022/24, EN 61000-6-2/6-4
EMI: CISPR 22, FCC Part 15B Class A
EMS:
 IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV
 IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m
 IEC 61000-4-4 EFT: Power: 2 kV
 IEC 61000-4-5 Surge: Power: 1 kV
 IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m
 IEC 61000-4-8 PFMF
Green Product: RoHS, CRoHS, WEEE

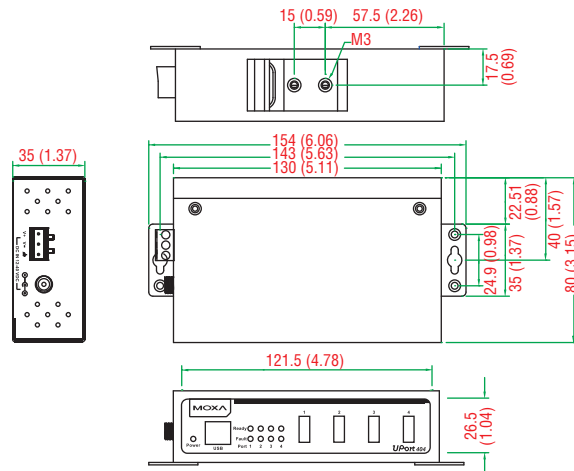
Power Requirements

Input Voltage: 12 to 40 VDC
Input Current: UPort 404: 1.3 A @ 12 VDC
 UPort 407: 2.3 A @ 12 VDC
MTBF (mean time between failures)
Time:
 UPort 404: 1,490,340 hrs
 UPort 407: 1,111,361 hrs
Standard: Telcordia (Bellcore), GB
Warranty
Warranty Period: 5 years
Details: See www.moxa.com/warranty

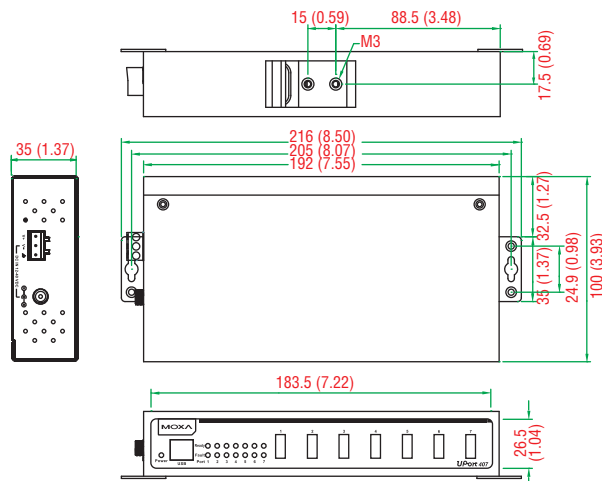
Dimensions

Unit: mm (inch)

UPort® 404



UPort® 407



Ordering Information

Available Models

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

Optional Accessories (can be purchased separately)

CBL-USBA/B-100: USB Type A to USB Type B cable, 100 cm
WK-35-02: 2 plates with 6 screws
DK-25-01: 1 DIN-rail kit; 25 x 48.3 mm with 2 screws

Note: One power adapter suitable for your region is included in the product package. Additional power adapters can be purchased separately. Please refer to the Power Accessory Selection Guide for details.

Package Checklist

- 1 UPort 404 or UPort 407 industrial-grade USB hub
- 100 to 240 VAC power adapter suitable for your region (excluding T models)
- USB Cable: CBL-USBA/B-100
- Wall-mounting kit: WK-35-02
- Quick installation guide (printed)
- Warranty card

Power Accessory Selection Guide

Barrel Plug Type		Non-locking barrel plug		Locking barrel plug			
O/P		12 VDC, 1.5 A, 100 to 240 VAC		12 VDC, 3 A 100 to 240 VAC (Switch Mode)			
Plug Type		CN	US/JP	EU	AU	UK	CN
Model Name		PWR-12150-CN-S2	PWR-12300-WPUSJP-S1	PWR-12300-WPEU-S1	PWR-12300-WPAU-S1	PWR-12300-WPUK-S1	PWR-12300-WPCN-S1
Appearance							
2 ports	UPort 1250	-	-	-	-	-	-
	UPort 1250I	✓	-	-	-	-	-
	UPort 2210	-	-	-	-	-	-
4 ports	UPort 1410	✓	-	-	-	-	-
	UPort 1450	✓	-	-	-	-	-
	UPort 1450I	✓	-	-	-	-	-
	UPort 2410	-	-	-	-	-	-
	UPort 204	-	✓	✓	✓	✓	✓
7 ports	UPort 404	-	✓	✓	✓	✓	✓
	UPort 207	-	✓	✓	✓	✓	✓
8 ports	UPort 407	-	✓	✓	✓	✓	✓
	UPort 1610-8	✓	-	-	-	-	-
16 ports	UPort 1650-8	✓	-	-	-	-	-
	UPort 1610-16	-	-	-	-	-	-
	UPort 1650-16	-	-	-	-	-	-

Barrel Plug Type		Locking barrel plug					
O/P		12 VDC 2 A, 100 to 240 VAC (desktop type)		2.5A/250 V Power Cord, 183 cm			
Plug Type		Must be used with a power cord					
Model Name		PWR-12125-DT-S2	PWC-C7US-2B-183	PWC-C7JP-2B-183	PWC-C7EU-2B-183	PWC-C7AU-2B-183	PWC-C7UK-2B-183
Appearance							
2 ports	UPort 1250	✓	✓	✓	✓	✓	✓
	UPort 1250I	✓	✓	✓	✓	✓	✓
	UPort 2210	-	-	-	-	-	-
4 ports	UPort 1410	✓	✓	✓	✓	✓	✓
	UPort 1450	✓	✓	✓	✓	✓	✓
	UPort 1450I	✓	✓	✓	✓	✓	✓
	UPort 2410	-	-	-	-	-	-
	UPort 204	-	-	-	-	-	-
7 ports	UPort 404	-	-	-	-	-	-
	UPort 207	-	-	-	-	-	-
8 ports	UPort 407	-	-	-	-	-	-
	UPort 1610-8	✓	✓	✓	✓	✓	✓
16 ports	UPort 1650-8	✓	✓	✓	✓	✓	✓
	UPort 1610-16	✓	✓	✓	✓	✓	✓
	UPort 1650-16	✓	✓	✓	✓	✓	✓