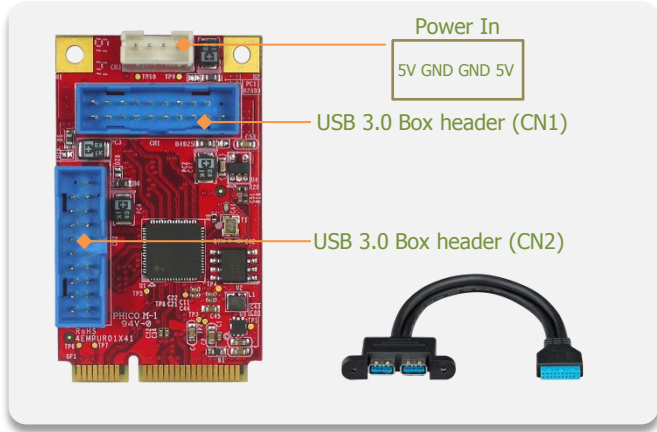


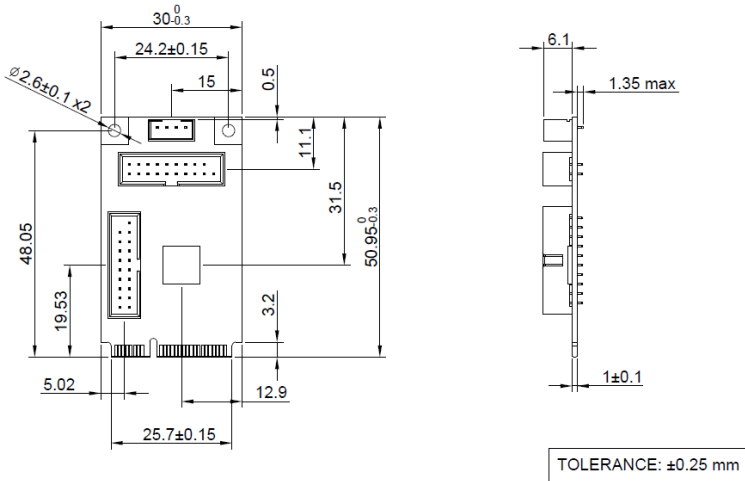
# EMPU-3401 mPCIe to four USB 3.0 Module



## Features

- PCI Express 2.0 to 4 x USB ports with SuperSpeed (5Gbps) data rate.
- Independent 1.5A overcurrent protection (OCP) for each port.
- Compliant with xHCI 1.0, USB 3.0 Rev 1.0.
- Two USB ports from CN1 provides limited power natively.
- Two USB ports from CN2 needs external power.
- Supports USB Battery Charging Specification Revision 1.2.
- Optional Industrial Temperature (-40°C to +85°C) support.
- 30μ golden finger, 3 years warranty.
- Industrial design, manufactured in innodisk Taiwan

## Mechanical Drawing



USB 3.0 Pin Assignment

Signal	Pin	Pin	Signal
Vbus	1		
IntA_P1_SSRX-	2	19	Vbus
IntA_P1_SSRX+	3	18	IntA_P1_SSRX-
GND	4	17	IntA_P2_SSRX+
IntA_P1_SSTX-	5	16	GND
IntA_P1_SSTX+	6	15	IntA_P2_SSTX-
GND	7	14	IntA_P2_SSTX+
IntA_P1_D-	8	13	GND
IntA_P1_D+	9	12	IntA_P2_D-
ID	10	11	IntA_P2_D+

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August 16, 2017

## Specifications

Form-Factor	mPCIe
Input I/F	PCI Express 2.0
Output I/F	USB 3.0
Output Connector	19 Pin box header
TDP	1.12W (3.3V x 340mA)
Dimension (WxLxH)	30.0 x 50.9 x 8.45 mm
Temperature	Operation: STD: 0°C ~ +70°C. W/T: -40°C ~ +85°C Storage: -55°C ~ +95°C
Environment	Vibration: 5G @7~2000Hz, Shock: 50G @ 0.5ms
Notes	Please download driver from MyInnodisk website. Windows: XP(32 bit), 7(32/64 bit), Vista Linux: Kernel v2.6.0, v2.6.8 *After Win8 and Linux Kernel v2.6.31 supports built-in xHCI 1.0.

## Order Information

**EMPU-3401-C1(Standard Temp.)**  
**EMPU-3401-W1(Wide Temp.)**  
mPCIe to four USB 3.0 Module