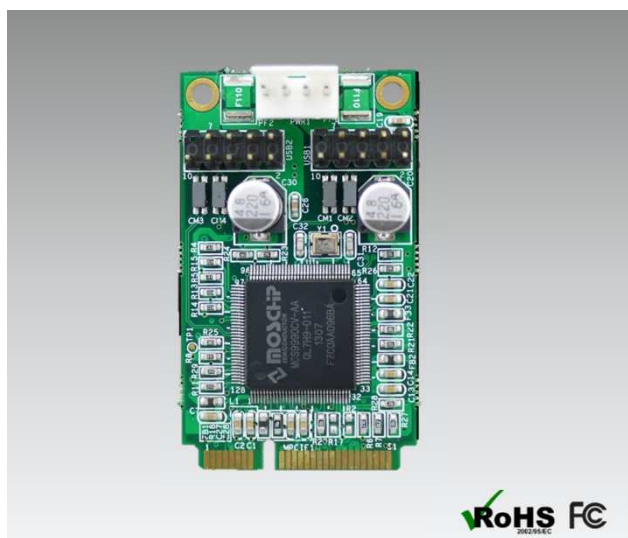


# MU990

## MINI PCIE TO QUAD PORT USB2.0 EXPANSION MODULE



### Main Features

- Supports four external USB 2.0
- MiniPCie full size to USB board
- Compliant with PCI Express Mini specification 1.2
- USB 2.0 provides up to 480Mbps of transferring rate
- Backward compatible with USB 1.0/1.1 devices
- Support gang mode of power management and over-current detection for downstream ports
- Industrial design, manufactured in Cadmus Taiwan

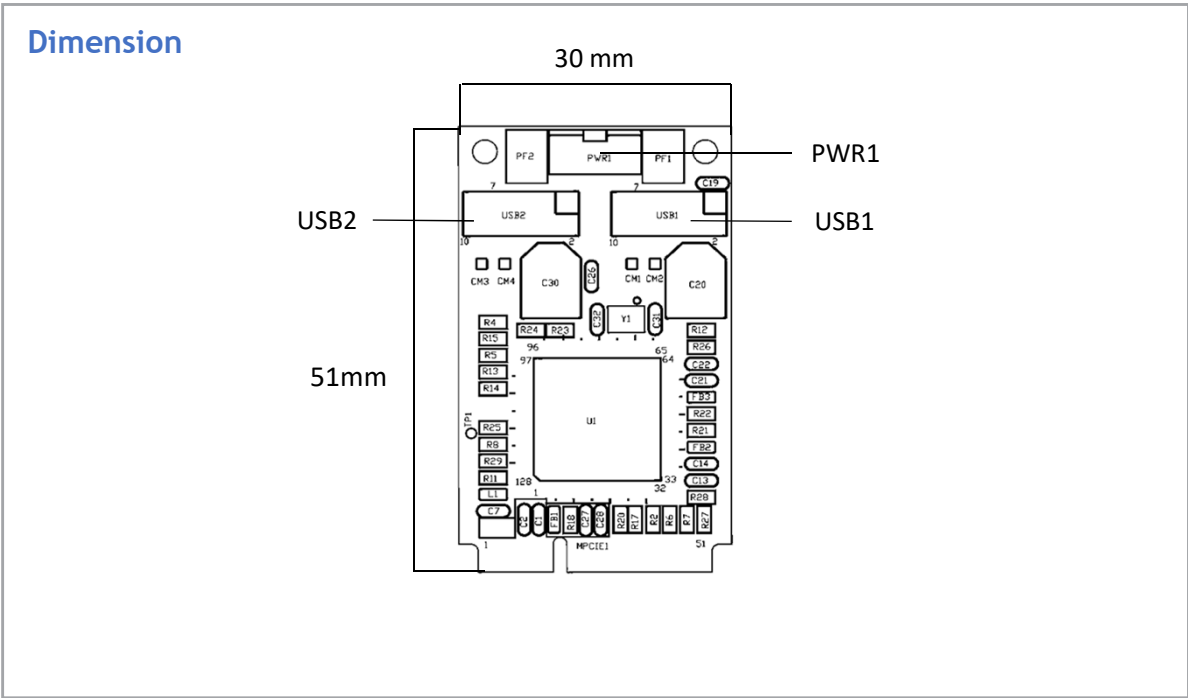
### Product Overview

Cadmus MU990 module is a family of PCIe to 4 USB 2.0 port devices. Provides a simple method of adapting four USB 2.0 devices to a modern PCIe x 1 port. This is accomplished by incorporating the industry standard PCIe bridge chip.

MU990 is a Mini-PCIe form factor expansion adapter that adds power and USB 2.0 host expansion capabilities to any standard Mini-PCIe socket that supports USB2.0 quad port and routes these USB signals out to a convenient connector along with providing 5V for connecting to USB peripheral devices and compatible with all types of USB devices, it's an ideal solution for USB expansion in embedded and OEM applications.

### Specifications

Module Name	MU990
Module Type	mPCIe to quad USB 2.0 Module
Form Factor	Mini PCIe full size
Input interface	PCI Express 2.0
Output Interface	USB2.0
Output Connector	Two 2*5 pin header
Power input	On board 3.3V One 1*4 pin floppy power pin header (5V)
Dimensions	51 x 30(mm)
Transfer speed	Low-speed (1.5Mbps) Full-speed (12Mbps) High-speed (480Mbps)
Compatible Operating System	Windows 7 Windows 8.1 Windows 10 Windows Server 2003 Windows Server 2008
Working Temperature	0°C-85°C

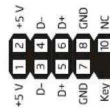


### Pin definition

#### PWR1:Floppy power pin define

Pin	Name	Color	Description
1	NC	Yellow	+12 VDC (Can Unconnected)
2	GND	Black	+12 V Ground (Same as +5 V Ground)
3	GND	Black	+5 V Ground
4	+5V	Red	+5 VDC

#### USB1 / USB2



Pin	Name	Description
1,2	VBUS	+5 VDC
3,4	D-	Data -
5,6	D+	Data +
7,8	GND	Ground
9	KEY	
10	NC	

### Ordering Information

#### MU990

- MiniPCIe to 4 ports USB2.0
- ATX 4P floppy power connector
- 2 x 20cm cable

### Front view

