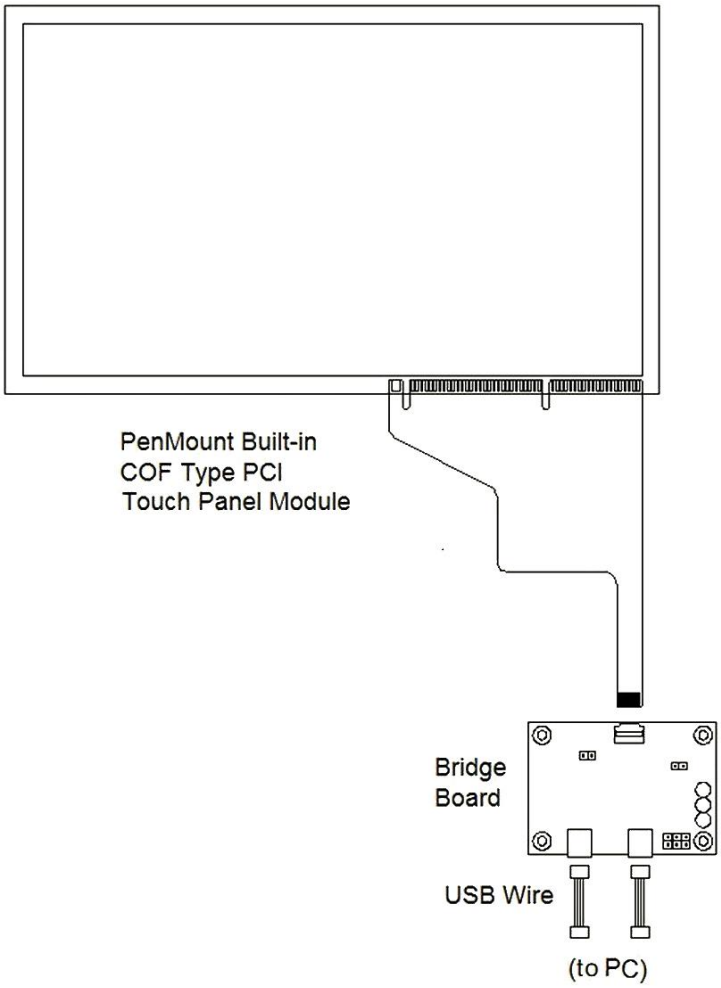
1.0 Product

PenMount PCI Bridge Board is a board that can switch specific I^2C, UART interfaces to standard USB interface. It is designed for the most of the AMT's PCI touch panels to work with a PC through USB by coupling with their PenMount built-in COF type PCI touch panel modules to work with a PC through USB.

1.1 Wiring Guide

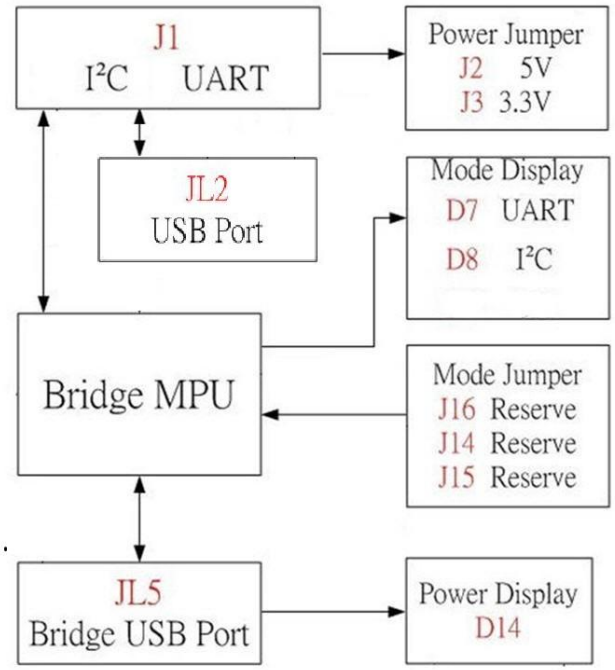
To PenMount Built-in COF Type PCI Touch Panel Module

The board provides solutions to connect COF type PCI touch panel module:
Directly connects the tail of flat cable of touch panel module to J1. See <Fig.1>.



<Fig. 1>

1.2 Block Diagram



1.3 Jumper settings

The Bridge board can provide COF type PCI touch panel module 3.3V or 5V power on the need if the module works on I^2C or UART interface. The following table lists the settings.

Connector	Jumper	
	J2	J3
J1	5V	3.3V

2.0 Specifications

2.1 Controller part no : P2-03

2.2 Interface: USB, I^2C, UART, RS-232

USB: Full-speed, 12Mbps

UART,RS-232 Interface 19200- 38400 baud rate / non-PnP

I^2C, Slave, support 400 kHz specifications

2.3 Mechanical Size: 62.2 X 44.2 mm

2.4 Input Voltage : +5V

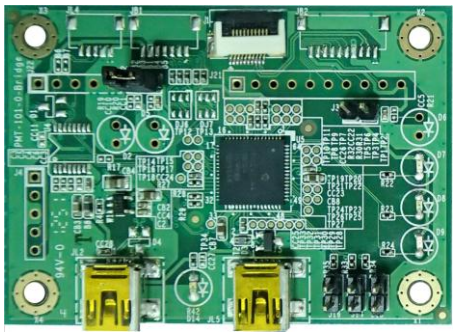
2.5 Operating Voltage: +5V / 3.3V DC

2.6 Operating temperature: -20°C ~ +70°C

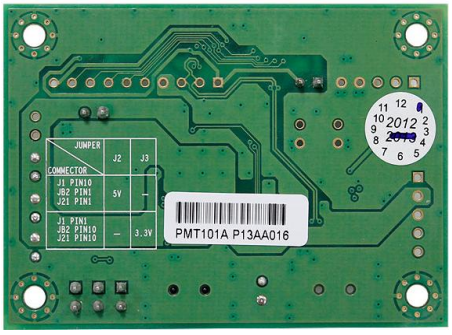
2.7 Storage temperature: -40°C ~ +85°C

3.0 Mechanical Drawing

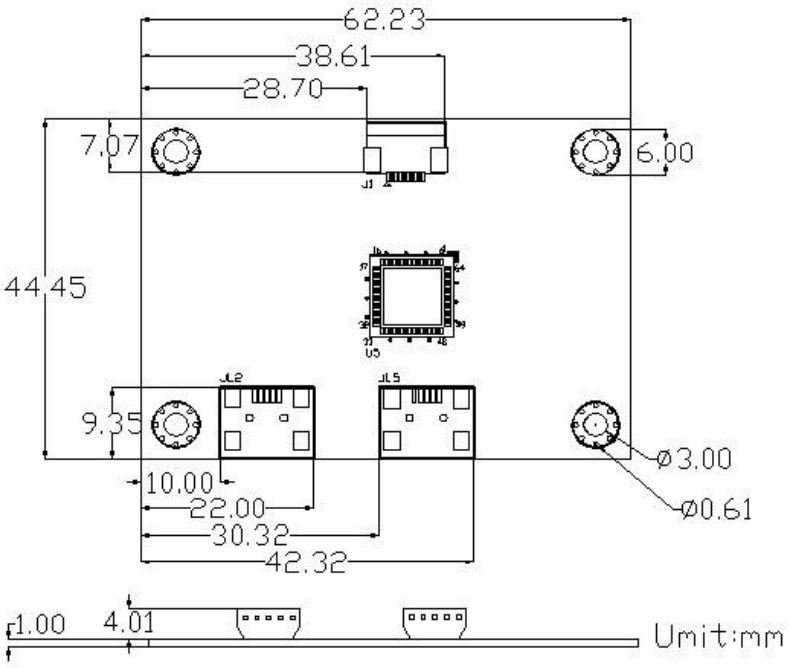
3.1 Mechanical size



Top View



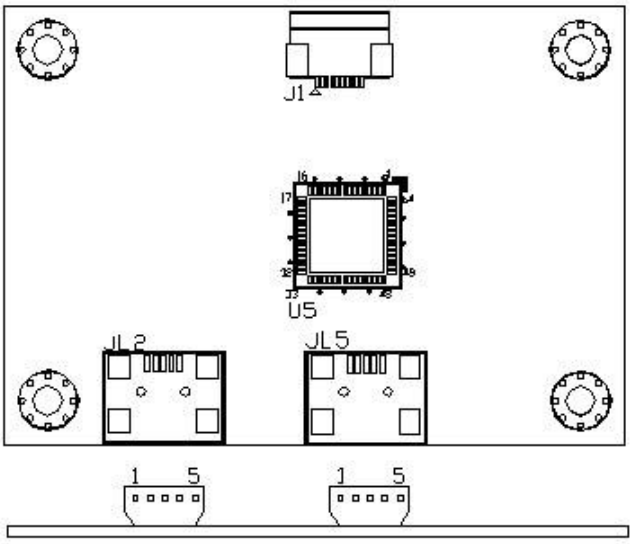
Bottom View



3.2 Control Board line pin definition

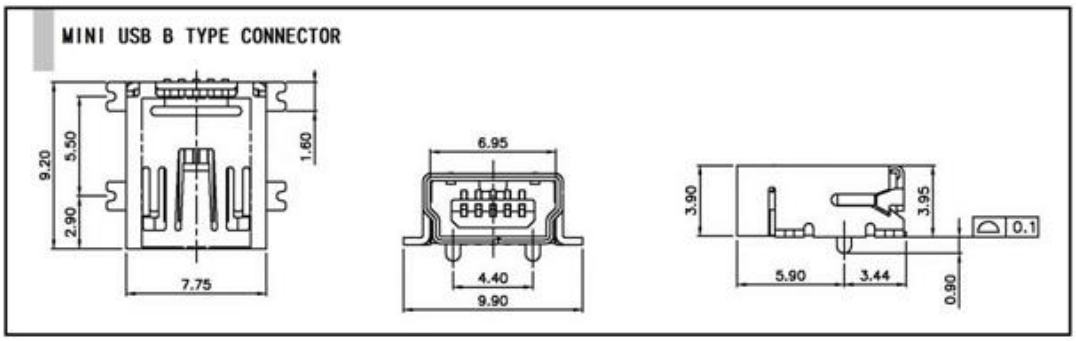
J1 10Pin FPC , PH 0.5mm ASEC 88511-1041							
PIN	Description	PIN	Description	PIN	Description	PIN	Description
1	3.3V	4	Reserve	7	GND	10	5V
2	INTHM	5	SDA / TXD	8	NC		
3	Reserve	6	SCL / RXD	9	NC		

3.3 Interface pin definition



JL5 MINI USB							
PIN	Description	PIN	Description	PIN	Description	PIN	Description
1	5V IN	3	D+	5	GND		
2	D-	4	GND				
JL2 MINI USB							
PIN	Description	PIN	Description	PIN	Description	PIN	Description
1	5V IN	3	D+	5	GND		
2	D-	4	GND				

3.4 Connector specification



Remark: Specification is subject to change without notice