

## CTA-UNI-AMTBB01

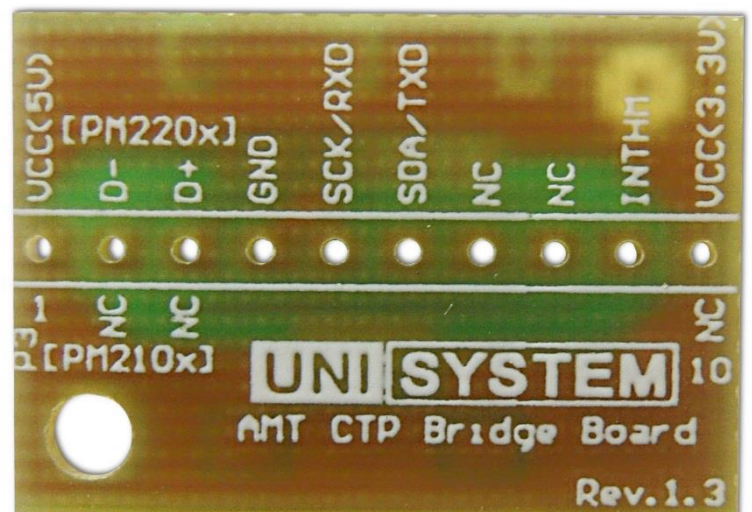
## Bridge board for AMT capacitive touch panel

**Features**

- Facilitates prototyping
- Can be applied to all AMT COF CTP

**Description**

Bridge board for AMT capacitive touch panel allows to change ZIF 0.5mm to crimp 1mm connector or 2.54 mm pinhead. By default, the 4 pin crimp terminal is soldered to allow connecting USB cable.



## 1. Pin configuration

P2 is a ZIF (zero insertion force) connector used to connect 10 pin (0.5mm grid) FFC from capacitive touch panel. Pin configuration depends on CTP controller which in turn depends on size of the panel. For 3.5" and 4.3" the controller is PM210x. For 5.7", 6.5" and 7.0" the controller is PM220x. Pin configuration of P1, P2 and P3 is shown in Table 1.

Pin no	Symbol (PM210x)	Symbol (PM220x)	Name and function
1	VCC (5 V)	VCC (5 V)	Power supply
2	NC	D-	Not connected / USB D-
3	NC	D+	Not connected / USB D+
4	GND	GND	Ground
5	SCK/RXD	SCK/RXD	I2C Clock / Data RX
6	SDA/TXD	SDA/TXD	I2C Data / Data TX
7	NC	NC	Not connected
8	NC	NC	Not connected
9	INT	INT	Touch panel interrupt signal
10	NC	VCC (3.3 V)	NC / Power supply

Table 1. Pinout for P1, P2 and P3

Crimp type connector is soldered to the first four pins of P1. It is used to connect USB cable. This feature can be used with PM220x controller (5.7", 6.5" and 7.0") only.

## 2. Connection

Connection method is shown in Figure 1. Bridge board should be placed overlay layer upwards. Capacitive FFC should be connected to P2.

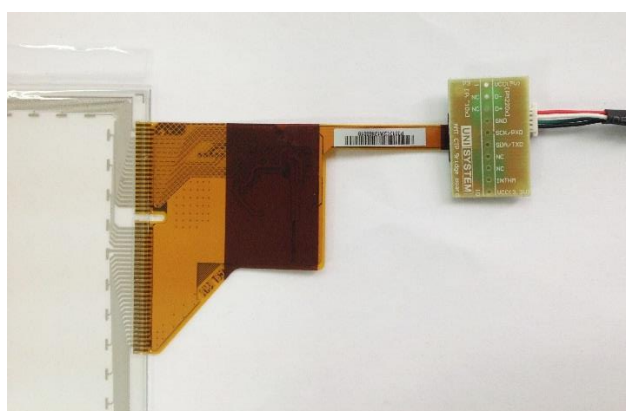


Figure 1. Connection of bridge board to CTP and USB(5.7", 6.5" and 7.0" only)

### 3. Mechanical drawing

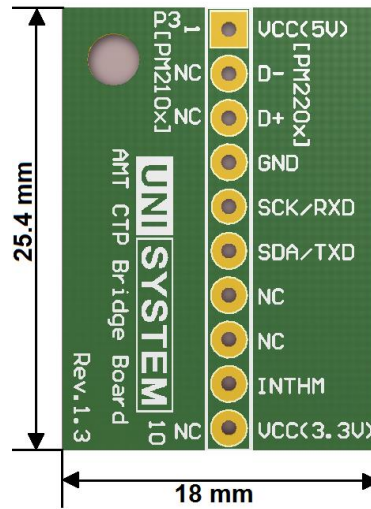


Figure 2. Mechanical drawing

### 4. Electrical connection

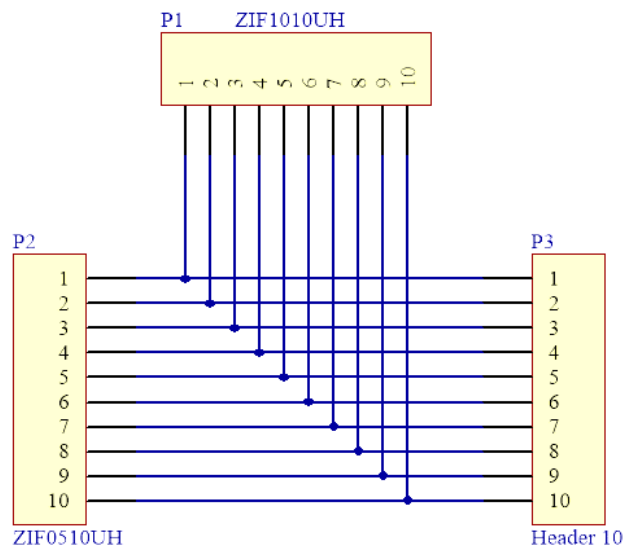


Figure 3. CTA-UNI-AMTBB01 - electrical connection

## 5. Related documents

- AMT, AMT 5.7", 6.5" & 7" PCI COF Touch Solution Datasheet,
- AMT, AMT 3.5" & 4.3" PCI COF Touch Solution Datasheet.

## 6. Ordering information

PN	Description	MOQ
CTA-UNI-AMTBB01	Bridge board for AMT capacitive touch panel	1

## 7. Revision history

Date	Revision	Changes
14-Oct-2013	1	Initial release.
15-Nov-2013	2	Board shape modification.

Table 2. Document revision history

## 8. Contact information

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