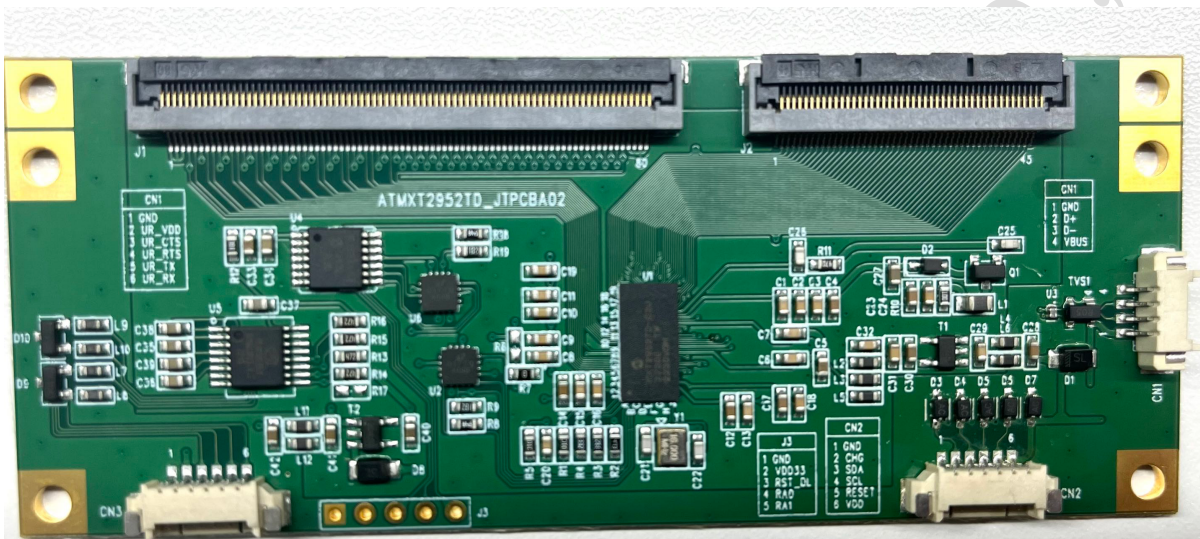


## ATMXT2952TD\_JTPCBA02

### Projected Capacitive Touchscreen Controller

ATMXT2952TD\_JTPCBA02 is a projected capacitive (PCAP) touch screen controller that powered by Microchip's high performance MCU ATMXT2952TD. By integrating the advantages of self and mutual capacitance sensing technology, built-in high driving voltage transceiver and a powerful MCU, this controller incorporate most desired features to boost the noise immunity, and support high demand applications in most categories.



### Features

- USB, I2C and RS232 interface
- Support advanced water resistance
- Support glove
- Support 10 mm glass (or 5 mm PMMA)
- Support passive stylus
- Support DITO, G/F, G/F/F, G/G, and Metal Mesh sensor
- Comprehensive driver support
- maXTouch studio tool support
- RoHS compliant

## OS Support Matrix

OS	Version	Interfaces
<b>Windows</b>	Windows 10 / Windows 8 / Windows 7 / Windows 2000 / Windows XP (I2C interface: need additional system configuration)	USB/I2C/RS232
<b>Win CE</b>	Win Embedded Compact 2013 / Win Embedded Compact 7	USB/RS232
<b>Linux</b>	CentOS, Debian, Fedora, Gentoo, Mandrake (Mandriva), Meego, Red Hat, Slackware, SuSE (OpenSuSE), Ubuntu (Xubuntu) and Yellow Dog etc. Support most 32/64 bit Linux distribution versions, including Kernel 2.6.x / 3.x.x / 4.x.x	USB/I2C/RS232
<b>Android</b>	Android 2.3 to latest version	USB/I2C

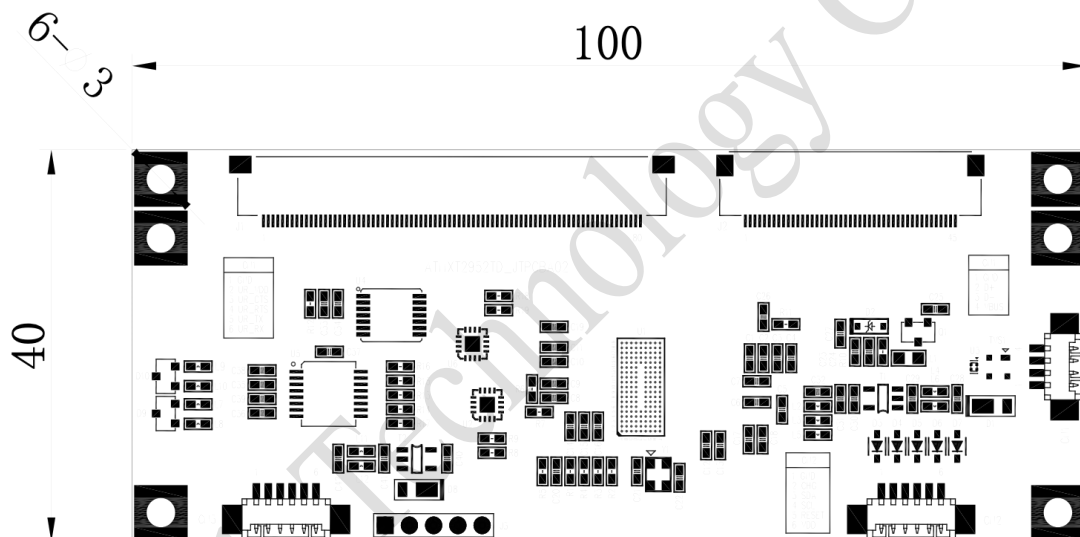
## Technical Specifications

Board Dimension	100mm x 40mm x 5.3mm
Channels of Panel	Max. TX41 RX71
Input Voltage	5V(USB), 3.3V(I2C), 5V(RS232)
Operating Temperature	-40 to 85°C
Storage Temperature	-40 to 90°C
Relative Humidity	90% at 60 °C, RH Non-condensing
Linearity*	Line drawing accuracy : 1pt +/- 1mm offset /10mm Touch (point) accuracy : 1pt +/- 1mm
Interface	USB HID interface I2C: up to 400KHz, Voltage Level 3.3V RS232 interface
Resolution	16384 x 16384 resolution
Power consumption	Active Mode: < 60mA, depends on firmware Deep Sleep : < 2.5mA
Report rate(points/sec)*	Up to 112 Hz reporting rate for one finger (subject to configuration) Typical report rate for 10 touches $\geq 100$ Hz (subject to configuration)
Response time	Average latency < 27 ms Initial touch latency <14 ms for first touch from idle (subject to configuration)

## Disclaimer

- Performance spec such as report rate can be vary depends on touch sensor channel number,cover thickness, system condition and other parameters.
- Special input performance can be influenced depends on module condition, contact material and volume, subjects including through thick glass touch, gloved-hand input, water resistance and noise immunity etc.
- Special features require to be pre-defined and pre-tuned during project development.

## Mechanics



CN1 USB connector: Molex 53261-0471		CN2 I2C connector: Molex 53261-0671		CN3 RS232 connector: Molex 53261-0671	
1	VBUS	1	GND	1	GND
2	D-	2	CHG	2	UR_VDD
3	D+	3	SDA	3	UR_CTS
4	GND	4	SCL	4	UR_RTS
		5	RESET	5	UR_TX
		6	GND	6	UR_RX