



**WTD0005**

**Touch Screen Controller (For RS232 Port)**

---

**WTD0005**  
**Touch Screen Controller**  
(For RS232 Port)

REV. 0.93  
July, 6, 2001

### General Description

WTD0005 are designed for electronic product which using four-wired resistance touch screen and PC RS232 peripheral application, for example handwriting pad, monitor touch screen and e-book. The purpose is to lower Host control affording in resistance touch screen to make your product can connect touch screen easily, and add your product additional value.

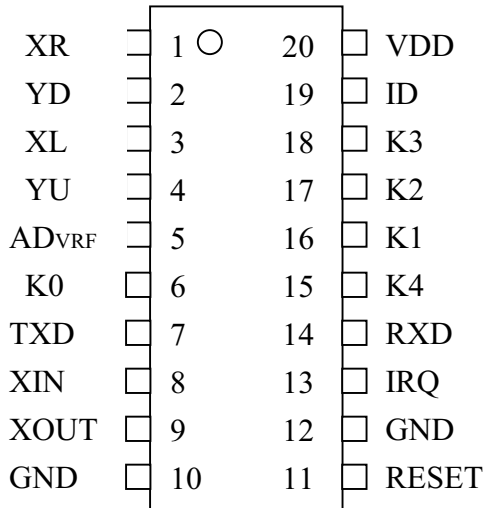
WTD0005 includes function for software filter; it can filter out unnecessary noise to lower flying-line producing rate.

Support packages, SOP-20 and dice.

### Features

- 8-bit micro controller base
- 12-bit resolution analog to digital converter
- 10-bit or 12-bit selectable absolute value of X and Y axis
- Debounce and noise filter function
- RS232 serial interface
- Single Supply 2.4V to 5.5V
- SOP-20 package or Dice

## Pin Assignment



**WTD0005**  
**20 pin SOP**

## Pin Description

| PIN# | NAME  | DESCRIPTION                    |
|------|-------|--------------------------------|
| 1    | XR    | Connect to X panel right side  |
| 2    | YD    | Connect to Y panel bottom side |
| 3    | XL    | Connect to Y panel left side   |
| 4    | YU    | Connect to X panel up side     |
| 5    | ADVRF | Connect to power source        |
| 6    | K0    | Key 0 (Scrolling up key)       |
| 7    | TXD   | RS232 TXD                      |
| 8    | XIN   | Crystal oscillator input       |
| 9    | XOUT  | Crystal oscillator output      |
| 10   | GND   | Connect to power ground        |
| 11   | RESET | Device reset input low active  |
| 12   | GND   | Connect to power ground        |

|    |     |                            |
|----|-----|----------------------------|
| 13 | IRQ | Connect to RS232 RXD       |
| 14 | RXD | RS232 RXD                  |
| 15 | K4  | Key 4 (Scrolling down key) |
| 16 | K1  | Key 1 (Left key)           |
| 17 | K2  | Key 2 (Middle key)         |
| 18 | K3  | Key 3 (Right key)          |
| 19 | ID  | ID code select             |
| 20 | VDD | Connect to power source    |