ZXY200®

The ZXY200® is Zytronic's innovative multitouch controller designed for use with our newest mutual capacitive Multi Touch PCT™ sensors

The ZXY200® controller is designed to cover the full range of multi touch sensor sizes offered by Zytronic.

ADVANTAGES

- 10 independent touch points

- Advanced "palm rejection" function eliminates false touches in angled/ table-top applications

- ARM 32-bit Cortex microprocessor enables rapid touch detection (~1ms output)

- Firmware can be updated easily and remotely

- Detachable and completely independent of touch sensors, helps servicing

- Output protocol available upon request

- Native driver support for Windows 7, 8 and Linux 3.5.1+ kernels

OPERATION

The touchscreen is divided into an X-Y matrix of sensing cells, using an array of embedded 10µm copper electrodes, which are near invisible to the human eye on the powered display. These electrodes are connected to a controller board and a charge is applied to the array.

When a finger or conductive stylus approaches the surface of the sensor, a change in the charge is detected in the nodes immediately beneath adjacent cells; the position is then determined by the controller and firmware combination. Unlike conventional capacitive systems the active component of PCT™ is embedded behind the front substrate, ensuring protection, long life, and stability.

The unique sensing characteristics of PCT™ sensing eliminates the need for an operating force, providing users with the same levels of touch sensitivity experiences with the latest smartphones and tablet PC's but on a much larger scale, and in any environment or location.

APPLICATIONS

Zytronic's Multi Touch PCT™ products meet the latest requirements for multi touch and multi user interactivity, while still maintaining the ultra high levels of durability Zytronic's products are known for.

The controller has been designed to function seamlessly with the latest operating systems supporting multitouch and application software packages such as NUITEQ Snowflake and Omnivision Omnitapps.

They are the perfect choice for digital signage, gaming and entertainment, touch tables and outdoor information stations.

CONTROLLER

- X-Y co-ordinate update rate, 1mS (based on 22" screen)

- Glass thickness operation, max 6mm

- Accuracy <1mm (based on 22" screen)

- Input voltage USB 5V and external 12V DC +/- 5% supply

- On board voltage +12V -12V, +5V -5V, +3.3V, DC

- Current consumption <100mA

- Supports sensors from 15"- 82"

- Controller recognised as HID device in Linux 3.5.1+ kernel, Win7 and 8 operating systems

- A simple "Config Tool" software is available to download to enable controller sensitivity settings to be adjusted in Windows and Linux operating systems

- The ZXY200® output protocol available on request

APPROVALS

- RoHS compliant

- CE, FCC (class B) and UL approved
  - www.zytronic.co.uk/support/quality-assurance

ZXY200® DRAWINGS

(available as USB only)

FRONT VIEW

ZYTRONIC
Leaders in Touch Technology