

PCT chosen to underpin car park entrance terminal from SureSpot

The Park in Peace terminal is reaping the benefits of Zytronic's anti-vandal glass touchscreen for low maintenance costs and robust build quality.

Developer and manufacturer of advanced touchscreen solutions, Zytronic, is supplying SureSpot with vandal resistant, thermally managed Projected Capacitive Technology (PCT) touchscreens to enable innovative parking terminals that improve the customer experience in unmanned car parks.

The SureSpot Park in Peace terminal uses

Zytronic's ZYBRID PCT touch sensors to create an effective touchscreen solution which makes finding and paying for parking easier and more intuitive. The 17" touchscreen is combined with a built-in QR Code Reader for scanning reservation codes. Users pre-book parking spaces using the SureSpot App or alternatively pay using the terminal itself. The Park in Peace then prints all necessary tickets and provides the user with directions to take them to their chosen spot.

To help control the internal temperature of the

unit and protect the display, the ZYBRID touch sensors have an integrated infrared (IR) blocking film on the rear face, reducing the transmission of heat energy from sunlight, and reducing the need for additional cooling. Furthermore, the Park in Peace touchscreens are manufactured with Zytronic's 4mm vandal resistant, thermally toughened anti-glare glass, offering robust and durable protection against accidental or malicious damage encountered in a heavy use, unsupervised public application, and optimal display visibility in outdoor environments.

Sales and marketing director at Zytronic, Ian Crosby commented, "We are delighted SureSpot selected Zytronic to provide touchscreen technology for their innovative entrance terminal. Our custom PCT touch sensors provide a rugged, hard wearing and reliable frontage for applications in nearly any operating environment and will ensure that these terminals provide a dependable and intuitive method of finding and paying for parking."

www.zytronic.com



Tablet PCs for both indoor and outdoor use

Phoenix Contact has launched the new Industrial Tablet Computer (ITC) 8113 with improved processor performance and luminous full HD display, which is well suited for both indoor and outdoor use.

Modern industrial networks increasingly require mobile workforces and remote controlled processes. The configurable tablet PC not only has a corresponding design and accessories, but it is also optimised for use in the service environment. Thanks to its reduced weight of just 1,800g, it is very easy to transport. The devices have IP54 protection, IP65 on the front, and are suitable for use indoor and outdoor use.

A ten finger multi-touch display and Windows 7 or 8 with the latest fourth generation Intel processor architecture ensure easy operation and performance. For wireless connection to an



existing network, wireless communication is possible via WLAN 802.11 a/g/n, Bluetooth 2.0 Class 1 and Class 2.

www.phoenixcontact.com

All-in-one starter kit accelerates development for touch-based applications

Renesas Electronics has announced its new touch sensing starter kit for the RX113 Group of 32-bit microcontrollers (MCUs), which incorporate capacitive touch sensor intellectual property (IP) that enables high sensitivity, high noise immunity and water resistance. The new kit offers systems designers greater flexibility in developing human machine interface (HMI) applications for home appliances, industrial machinery and others that require touch capability in rugged environments.

The capacitive touch sensor IP built into RX113 Group of MCUs delivers both high sensitivity and high noise tolerance, allowing touch recognition even when the operator is wearing gloves, for instance with industrial applications such as numerical control (NC) machine tool control panels. It also provides water resistance, making it suitable for use in a wide variety of product categories, including electric kitchen appliances that may be exposed to water spills, such as induction heating (IH) cooking devices or dishwashers, or products designed for wet environments, such as remote controls for bath water heaters or water resistant TV sets.



The new touch sensing development kit enables system designers to take advantage of the full performance benefits offered by Renesas' capacitive touch sensor IP. In addition, the kit provides automatic tuning functionality that solves a key problem for capacitive touch interface development - the trade-off between touch sensitivity and noise tolerance. The starter kit is bundled with four touch sensing evaluation boards, making it simple to create suitable environments for testing panel materials, proximity or position sensing.

www.renesas.eu

Mono to colour is made easy

Upgrading from character modules to colour TFT displays just became easier with the announcement by andersDX that it will customise its QVGA colour TFT module to fit into front panel slots designed for popular character modules.

andersDX will customise and adapt the module to fit into the existing case aperture, designing a bezel or housing to create a perfect fit. They will also supply an interface PCB designed to minimise the redesign of the electrical interface. andersDX can adapt its QVGA module to fit apertures designed for most character modules between 128 x 64 or 240 x 128 pixel formats.

According to Paul Hooper, European sales manager of andersDX, "Customised colour graphics modules offer a very economic alternative to designers who want to update the front panel without mechanical redesign. We do the hard work, so that all the customer needs to do is think about the content on the display. This can be kept simple to minimise programming effort, or be more advanced making full use of the graphics features of this module."

andersDX can optionally adapt the modules further, adding resistive touch control for example. They feature an anti-glare film as



standard, and can be optionally supplied with scratch resistant or anti-reflective coatings. The andersDX 2.8" QVGA modules are also available with backlight enhancement.

To replace character modules of different sizes, andersDX offers its semi-custom service. Colour graphics TFT displays on a 4.3" and 2.8" diagonal can be cut to a specified height to suit the front panel aperture. There is an initial NRE (non-recurring engineering) cost for this service, but it is less than one-tenth the normal upfront charge.

www.andersdx.com

Colour touch panels with vandal resistant 15mm glass

Varitronix has announced a new development to further enhance their range of high resolution touch panel TFT displays. The development allows the addition of a cover lens with glass thickness up to 15mm through which the capacitive touchscreen can still easily be operated.

The technology challenge was to provide the required range of touch sensitivity through a thick 15mm glass which was needed to provide a solution for use within a high risk vandal environment. Mutual type projected capacitive technology is used which, when combined with software upgrades, gives the end result of unimpaired touch sensitivity, despite the glass thickness, while also maintaining minimal drop in the optical transmission of the display at less than ten percent.

In the example shown Varitronix has incorporated a 7" normally black, TN, transmissive TFT panel, resolution 800 x RGB x



480 with the special cover lens for a public transport application. Other applications will include the intrinsically safe, military and marine market sectors.

The displays are manufactured in accordance with international certifications including ISO 9001 for general quality management and ISO/TS 16949 for quality management of automotive products.

www.varitronix.com