

COMPONENT DISPLAYS



A comprehensive range of alphanumeric and graphic LCD's in both STN and FSTN technologies, incorporating COB, TAB & COG modules. Character displays from 8 x 2 line format through to 40 x 4 lines. Large character models available in most formats with LED (inc. white) and EL backlighting options. Graphic displays from 96x64 dots through to 320x240 dots QVGA covering all the popular and some not so popular resolutions. Other features include on-board graphic LCD controllers, LED and EL backlighting options plus wide temperature operation versions available at no extra cost.



Powertip have also now added a small but growing range of Colour TFT LCD and now AMOLED modules with sizes starting at 3.5" QVGA through to a 9.0" WVGA in the TFT range many with white LED backlighting and 2.0" 176x RGB X 128 through to 2.8" QVGA in the AMOLED range.



TFT and CSTN LCD from the world's premier LCD supplier to the industrial OEM equipment market. Sizes from 3.5" 240xRGBx320 through to 10.4" 640xRGBx480 including the key sizes in the industrial field 4.7" and 5.7" with the latter available in both QVGA and full VGA. Kyocera have focused their attention on key areas such as hi-brightness, compact design and guaranteed long product life, which are important factors when designing industrial and medical products. Other features include white LED backlighting options, symmetrical bezel design, long life backlights and factory integrated resistive touch overlays.



Full colour (262K), Area colour and Monochrome Graphic OLED Displays, utilising the latest COG, TCP and COF technologies to create extremely slim, compact displays. OLEDs emissive technology offers very hi-contrast, wide viewing angle, low power displays making them ideal for hand held battery driven applications. OLEDs also have a very fast switching speed up to 200 frames/sec, which makes them ideal for video streaming applications. Sizes from 0.66" (64x48 pixels) diagonal through to 3.12" (256x64 pixels) diagonal with larger sizes under development.



An excellent range of monochrome character and graphic LCD plus a small but growing range of OLED displays. Character modules from 7x2 lines through to 40x4 lines encompassing all the usual formats in between. The extensive graphics LCD range incorporates the latest in COB, TAB and COG technologies with LED (inc. white and blue) and EL backlighting available as standard on all models. Other features include on-board graphic LCD controllers, wide operating temperature and single 5v or 3V supply options.



COMPONENT DISPLAYS cont.



A small but dedicated range of hi-end TFT LCD with the focus on high brightness and super high contrast. GTT take CMO TFT LCD and either passively enhance the display to produce extra brightness from the standard CCFL lamp or actively enhance the panel with their own BLU (backlight unit) to produce super hi-brightness suitable for sunlight viewing. With super hi-contrast (1500:1 ratio) long life CCFL backlights (50Khrs) and wide operating temperature (-30~70°C) our panels are suitable for a host of industrial and medical applications where performance is the key factor. Panel sizes 10.4", 12.1", 15.0", 17.0" and 20.1". We can also offer driver boards and full cabling with matching performance for all panels to suit whatever application and environment.



A comprehensive range of small to medium size TFT LCD with driver board combinations, video NTSC/PAL & Analogue RGB inputs. Sizes start at 2.5" (480xRGBx234) and run through to 10.4" SVGA. Applications include portable video monitors, door entry systems plus a host of industrial OEM equipment. Features include hi-resolution video dot formats, 16:9, 15:9 and 4:3 aspect ratios, all small size panels have white LED backlighting whereas the larger sizes have hi-brightness CCFL.



Custom designed LCD panel specialist, from simple monochrome LCD panel only to complex modules including PCB, LED and EL backlights, zebra strip connections and bezel. Low cost NRE/Tooling charge plus a low MOQ of just 1kpcs on most designs.



PANEL MOUNT (TOUCH) MONITORS



A superior range of Touch and Non-Touch monitors available in two basic formats "Closed Frame" and "Open Frame". Both are ideal for cost sensitive applications such as Casino Gaming, Retail and a host of kiosk applications. All are designed to be easily integrated into your unique system enclosure and can be supplied with various touch technologies depending on your environment and budget. Sizes from 15.0" to 42.0" and satisfy a broad range of application needs. Features include hi-brightness, typically 550cd/m² although 1600cd/m² is also possible, hi-contrast, fast response times (suitable for gaming machines) and multiple inputs (analogue RGB, DVI, composite & s-video). All models benefit from a rugged steel enclosure or mounting frame and hold CE, VSSI, FCC and RoHs approvals. By working closely with the large Korean and Taiwanese TFT manufacturers GTT can identify market shifts in panel size and performance which enables them to keep pace with the current market trends and foresee any possible future supply problems.



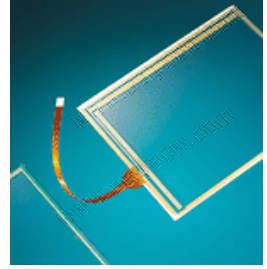
"Closed and Open Frame" monitors and touch monitors from 6.4" VGA through to 42.0" WUXGA. Features include multiple inputs (analogue RGB, DVI, composite & s-video), hi-brightness and a choice of touch technology depending on your budget and environment. The metal mounting frame makes these monitors ideal for rugged kiosk type applications.



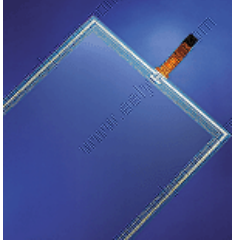
TOUCH OVERLAYS



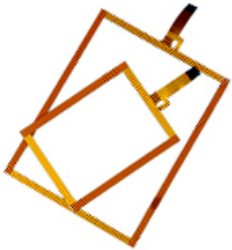
Eely-ECW produce an extensive range of 4-Wire Resistive, 5-Wire resistive and Capacitive touch overlays suitable for a host of applications and environments.



The 4-Wire resistive sensors offer a transmissivity of >83% and are available from 2.8" to 21.0" diagonal and cover all the popular LCD panel sizes in between. Sensors can also be supplied with either normal or chemically strengthened glass, have a life expectancy of >1million touches on a single point and have a touch resolution of 4096x4096.



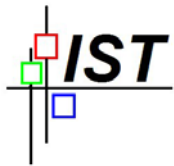
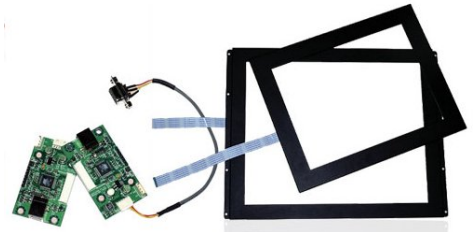
The 5-Wire Resistive product offers better ruggedness over the 4-Wire and will in fact continue to operate even with the front film damaged. Sizes from 5.8" through to 21.0" and again cover all the popular LCD panel sizes in between. Transmissivity is >83% and the resolution is 4096x4096. The life expectancy over the sensor is >35million touches on a single point. Sensors can also be supplied in both normal and for more hostile environments chemically strengthened glass.



Pure glass Capacitive sensors with >90% light transmission offer excellent rugged properties and have a life expectancy of over 225 Million touches (single point). They are the choice for a host of applications where the users will be un-supervised public. Flat display sizes from 6.5" through to 21.0" diagonal with a resolution of 4096x4096, sensors are available with either an RS-232 and USB controller.



For true hostile environments Infrared touch has stood the test of time, with excellent sealability, light transmissivity (92~100%), extremely wide operating temperatures (-40-+50°C) and excellent anti-vandal properties. IR touch is the choice for outdoor kiosks and other extreme applications. With a Touch Resolution of 16,384 x 16,384 and with standard sensors from 10.4" to 100.0" most applications can be accommodated, however custom solutions are also welcome.

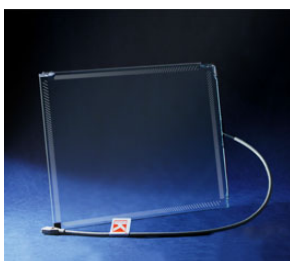
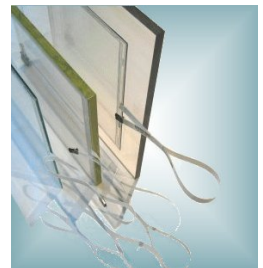


IST's range of IR touch sensor clip-on overlays for large LCD or Plasma monitors. The frames are designed to utilize existing mounting holes on the monitor housings and are bolted on for security. Frames are supplied with either RS-232 or USB Touch interface and full software for quick and easy integration. Sizes from 30.0" to 103.0" diagonal, with custom sizes also available.



Ultra Touch from AD Metro is based on the 5-Wire Resistive technology however instead of the easily damaged front film the front layer is a flexible glass/polymer laminate which results in an extremely rugged sensor suitable for a host of hostile environments. Sensors will tolerate extreme vandalism abuse, liquid and cold. Sizes from 6.4" to

20.1" diagonal with custom enquiries also welcome. Sensors can be supplied with either an RS-232 or USB controller.



Keetouch's Pure glass Surface Acoustic Wave Touch sensors, which have a light transmissivity of >90% are available for flat displays from 8.4" to 21.0" and CRTs from 15.0" to 19.0". 6mm Tempered glass sensors can be supplied for rugged applications subject to vandalism and cold etc. with its surface hardness of 7 mohs the sensors are very difficult to scratch or cut using sharp instruments. Applications include gaming machines and public information kiosks.

THERMAL PRINTING



A comprehensive range of ultra compact thermal printers, from simple mechanisms to portable stand-alone and panel mount versions. This exceptional product range represents an effective printing solution for present and future needs which has enabled our printers to be used in a wide range of industries such as retail sales, transportation, hospitality, gaming and healthcare to name just a few. Features include silent direct thermal technology, serial & IrDa or **Bluetooth** interfaces, built-in MSR on some models, hi-resolution (203dpi or 8dots/mm), hi-speed (typically 40~50mm/sec), clamshell design for ease of paper loading plus self adhesive label roll printers. CE, UL, FCC approved.



Mitani's Thick film thermal printheads are available in "Side-face", "Bevel Edge" and "Normal" technologies. Mitani's range is regarded as the world's largest in thick film technology with print widths starting at 25mm (1.0") and going through to 216mm (8.0") with various resolutions between 3 dots/mm and 8 dots/mm. This range of printheads is designed to print on a host of different media, from self-adhesive labels on food packaging to the packaging itself as well as plastic and metal cards. Thick film technology printheads have an excellent record working in environments where a dusty and a high concentrate of air pollutants can seriously reduce print quality and ultimately print head life.



Craft Data Ltd.

92 Broad Street, Chesham, Bucks, HP5 3ED,

01494 778235 + 01494 773645

, sales@craftdata.co.uk ø www.craftdata.co.uk