



TOUGH TOUCH

RUGGED LED LCD DISPLAY

The K-10 is a rugged 10" LED LCD display ideal for in-cab applications, thanks to high brightness and auto backlight features which makes this vehicle touch display easy to use. Our resistive touch screen is easy to operate while wearing gloves and the sturdy aluminum housing provides advanced protection in harsh environments.

The Tough Touch K-10 offers superior readability under sunlight as well as other applications where a bright, non-reflective display is required.



FEATURES:

- ✓ 1,000 NIT Sunlight Readable with Long Life LED Backlight
- ✓ 5-wire resistive touch screen
- ✓ Auto resolution scaling
- ✓ 1024x600 physical resolution
- ✓ Anti-reflective coating

The **Tough Touch display** is water & dust-proof to NEMA-4/IP65 and has been designed for operation in continuous vibration environments including the ability to withstand repeated shocks.

A **75mm VESA mount** allows the use of industry-standard, in-vehicle mounting hardware.

The **touch screen interface** supports both USB and RS-232 (allowing operation with long cable runs). An internal speaker allows PC audio and warning tones to be easily heard.

The **display** operates from 9V to 34V DC and includes a load dump and transient protected power input, allowing direct connection to vehicle power. Typical operating power is 8-11 watts due to the LED backlight - extremely low for a monitor with this performance.

An **operating temperature** range of -20°C to +65°C allows the Tough Touch displays to be used in a wide variety of conditions.

A low-cost **Screen Maintenance Kit** is available to easily change the protective covering of the screen. The covering protects the glass from urban grit, mining dust, etc., as well as providing additional impact protection.

TOUGH TOUCH K-IO



SPECIFICATIONS:



LCD CONTROLLER

- VGA: Analog RGB, 0.7Vp-p
- 10.4" - 640x480, 800x600, 1024x768, 1280x1024
- Monitor automatically scales the input signal
- Input vertical frequency: 60Hz and 70Hz; 60Hz is recommended
- On-Screen Display (OSD) includes: Contrast Ratio, Brightness, H-position, V-position, Clock Phase and Color Balance

POWER

- Input voltage range 9V to 34V DC
- Power consumption - 11W typical, 14W maximum
- The monitor has a digital input for power on and off control. This input is different from the Power On/Off button. Using this input results in zero off state power consumption.
- Load dump and other transients specified in ISO-7637

USER INTERFACE

- Front panel buttons are: Power On/Off, Backlight Brightness Up and Down, OSD Menu
- OSD menu control buttons are: Menu/Select, Left and Right

TOUCH SCREEN

- 5-wire resistive
- Glass thickness: 1.8mm
- Operation force: < 1N with a stylus of 0.8mm radius
- Linearity: < 1.5% for both X-axis and Y-axis
- Contact bounce: < 10ms
- Impact: No damage with a 9g steel ball dropped into the center of the panel from a height of 30cm
- Static Load: 5kg load over a 10mm area for 10 seconds
- Hardness: 3H pencil pressure 1N @ 45 degrees
- Durability write test: 10,000,000 times with a force of 250g and a silicon rubber stylus of 0.8mm radius
- Durability impact test: 1,000,000 times with a force of 250g, 3Hz R8/HS60

TOUCH SCREEN CONTROLLER

- Resolution: 2048 x 2048
- Report rate: 250 points/second maximum with USB interface. 160 points/second maximum with RS232 interface
- Response time: 20ms

AUDIO

- Front panel mounted speaker, with internal fixed gain mono amplifier. The speaker is intended for connection to a PC for operator feedback and warning tones

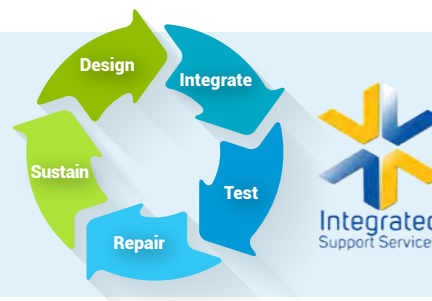
PHYSICAL CHARACTERISTICS

- 263mm Wide x 244mm High x 42mm Deep (plus 54mm mated connector)
- Weight: 1.45kg - 10.4"; 1.0kg - 8.0"
- Operating temperature -20°C to +65°C
- Storage temperature -20°C to +80°C
- 10% to 90% RH, non condensing

CABLE AND COMPATIBILITY

- Military grade connectors compatible with the Octagon TRAX computers
- Intended to be bundled with the above computer
- Power and protection supplied by the computers, no battery connection necessary.
- 3 metre cable and 5 metre cable options

Tested to MIL-STD-810 Standards



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