



TSD04C



Sainsel

Characteristics

TSD04C is a high performances X Terminal, lightweight and robust, designed specially for onboard applications, which offers to the user a multifunction and modern Human/Machine Interface, easily integrable in any system through its standard interface X11R6.4.



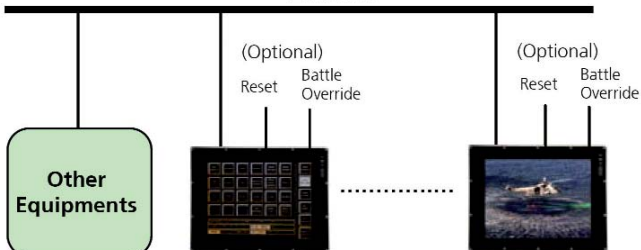
TSD04C X Terminal includes color flat panel TFT display of 10,4" diagonal, with a touchscreen display associated, which works as input device like a mouse. Additionally, TSD04C X Terminal has a connector for the alphanumeric PS2 keyboard in rear part, which can be used for applications that required it.

In its front panel TSD04C X Terminal provides indicators for ON/OFF, out of range temperature and alarms, and also keys for brightness control.



For its design and construction it can be used in civil and military applications.

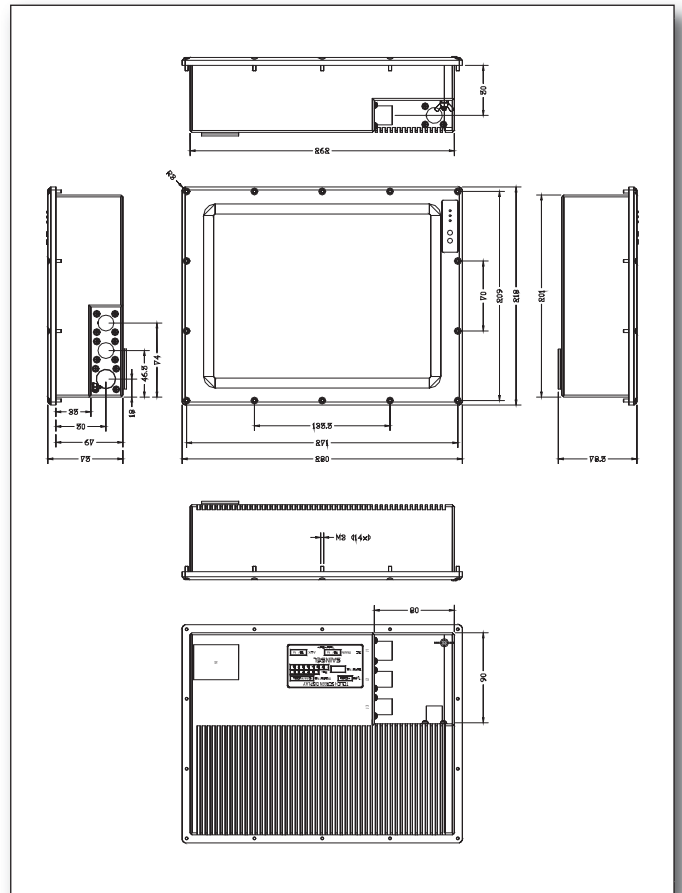
Ethernet



To allow its integration in major systems TSD04C terminal includes inputs of Reset signal and Battle Override signal.

Due to its characteristic of standard X terminal, it can be used for any application implemented with X Windows.

Dimensions



Display	<ul style="list-style-type: none"> • Color TFT Flat Panel of active matrix. • Size: 211.2 mm x 158,4 mm (10,4" diagonal). • Resolution: 800 x 600 pixels. • Aspect reference: 4:3. • Colors: 262144. • Contrast reference: 200:1. • Medium luminance: 230cd/m². • Horizontal and vertical vision angles: ± 45° minimum. 		
Touchscreen characteristics	<ul style="list-style-type: none"> • Resistive technology. • Resolution:3400 points in horizontal, 2900 points in vertical. • Answer temp: 200 coordinates/second. • Minimum Activation Energy: between 57 and 113 grams. • Life : minimum 2.000.000 pulsations. 		
X Commands Process characteristics	Tested characteristics using X11PERF - Performance Program Version 1.5: <ul style="list-style-type: none"> • 106.000 points/sec. • 206.000 characters (in lines of 80 characters with 6 x 13 pixels of size). • 23.000 rectangles/s with 100 x 100 pixels of size. • 21.600 segments with line/s with 100 pixels of size. • 6.310 circles/s of 100 pixels. 		
Interfaces	<ul style="list-style-type: none"> • Ethernet Interface 10/100 Base T according to IEE.802.3 and TCP/IP protocol. • Reset and Override signals de opened contact without tension. • Connector for alphanumeric PS2 keyboard in rear part. 		
Controls and Indicators	• "POWER":	ON/OFF indicator.	
	• "FAULT":	Fault indicator.	
	• "OUT R TEMP":	"Out of range" temperature indicator.	
	• "BRIGHTNESS":	Brightness control.	
Power supply	<ul style="list-style-type: none"> • Main power supply: 28V DC, 20W, satisfying requirements of the norms MIL-STD-704, MIL-STD-704A y MIL-STD-704C. • Auxiliary power supply for internal heaters: 28V DC, 10W. 		
Dimensions	280 mm x 218 mm x 78,5 mm.		
Weight	3,5 kg.		
Environmental Conditions	Temperature	Storage	(MIL-STD-810E) -40° C a + 71° C.
		Operating	(MIL-STD-810E) 0° C a + 50° C.
	Humidity	(MIL-STD-810E y RTCA/DO-160C) Until 95% without condensation.	
	Vibration	(RTCA/DO-160C) Double amplitude of 0.100" of 5 to 20Hz y ± 2 g of 20 to 500Hz.	
	Shock	(RTCA/DO-160C) 18 impacts of 10 g's with 11 ± 1 ms duration.	
	Drip	(RTCA/DO-160C) 280l/m ² /h.	
	Saline Fog	(MIL-STD-810E) Concentration 5% Cl Na and pH between 6,5 and 7,2 (35°C).	
Altitude	(RTCA/DO-160C) Until 36.000 ft.		
Fast Decompression	(RTCA/DO-160C) Maximum from 36.000 ft to 10.0000 ft in 10'.		
EMI/EMC	MIL-STD-461D y MIL-STD-462D (CE101, CE102, CS101, CS114, RE101, RE102, RS103).		