

MILCOTS™

12" LCD Panel PC / PPC-6412XG

High End Rugged Solution For Most Demanding Environments



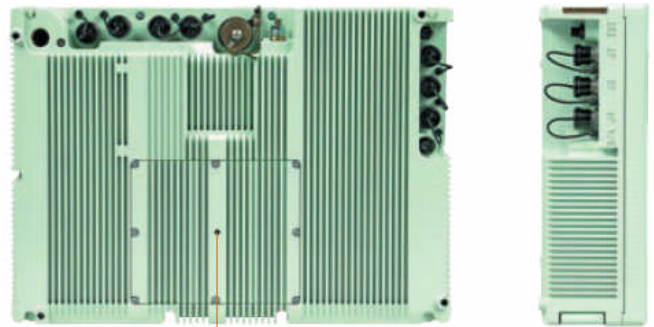
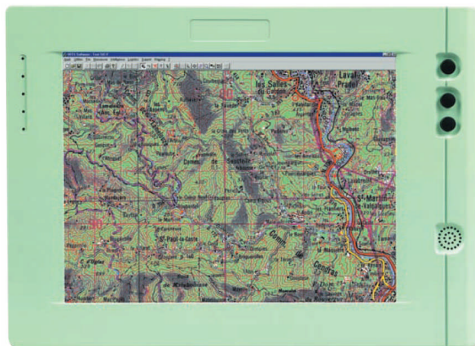
Highly Rugged Graphic Computer

Naval

Special Forces

Armored Vehicles

All Harsh Environment Applications
Requiring Total Protection



Direct access to ETX CPU and memory
for easy maintenance and upgrade

Key points

- The 6412 Panel PC meets even the most drastic requirements set by the military environment.
- With high end graphic display it combines the very best computer capabilities in a highly compact solution: versatile connectivity with numerous I/Os, self-running, rugged hard disk...
- Single-block aluminum injected packaging.
- IP68 waterproof (submersible) and highly resistant to shock and vibration whether running or not.
- Adaptable to wide temperature variations.
- EMC reinforced, full MIL Spec class, with an original resistive touch panel, that insures a perfect readability in the most demanding applications.

12" LCD Panel PC / PPC-6412XG

Display

Display Module:	Color TFT 12.1"
Resolution :	1024 x 768
Brightness :	250 cd/m ²
Contrast ratio :	300:1
Dot pitch :	0,24 mm
Viewing angle :	70°L/70°R/45°U/55°D
Display color :	262K
Active display area :	245.8 x 184.3 mm

Physical Features

Dimensions (WxHxD):	13.8" x 10" x 3.4"
Weight :	18.7 lbs. (with NiMH battery)

Touch Screen

Resistive 6 wires

Computer

ETX technology with PC104/PC104+	
Processor:	Pentium III 800 MHZ
RAM:	256
Serial port:	2 x V11/V24 soft. conf.
Digital I/O:	6 opto isolated
Sound:	1 x mono ext. + buzzer 85dBA/50cm int.
USB:	1 ext + 1 int.
HDD:	40GB IDE
Ethernet:	Ports internal switch: 1x10/ 100 BT ext. + 1x10B2 ext. + 2x10/100BT int
Keyboard/mouse	PS/2
Expansion slots:	2 bootable PCMCIA ext. + 1 (PC104+) + 1(PC104) int.
Operating System:	Windows NT 4.0, Windows 2000, Windows XP, Linux
BIT & Embedded Software:	High performance BIT & unit management software

Electrical Features

Power:	Power15/40V DC with galvanic isolation 1 internal NiMH high temp. battery (1 hour) or 2 x internal Li+ batteries (2 hours)
Power Consumption:	40W normal environment cond./80W max in cold environment

Connectors: MIL C 38999 14 pts/4 pts

Transport/Interface: 4 x M5 on back side

Packaging: Aluminum

Environmental Conditions

Waterproofness: IP68 (1 meter submersible)

Operating temperature : -32 °C to +50 °C

Storage temperature : -40 °C to +70 °C

Shock : Repetitive shocks 200 x 25g
6ms x 6 axes
50 G, 11 ms

Vibration: 2,65G RMS
random 5 to 500 Hz

EMC: MIL-STD-461E
CE102, CS101
RE102, RS102, RS103
MIL-STD-1275B
«spikes» & «voltage surge»

Control and Supervision: I/O, Blackout, brightness
tuning, test, and LED indicators

Options

CPU:	ETX range CPUs, from Geode 266 MHz up to Pentium M 1.4GHz
RAM:	RAM Depending upon CPU model, up to 1GB
HDD:	HDD 2"5 Flash disk for even more rugged panel PC
CPC:	7 x V11 / V24 EADS© communication board
ACQ:	Video aquisition board