



## Features

- 12.1" TFT-LCD Panel system, wide temperature , IP65
- Intel® Atom N270 1.6 GHz Processor, 533 MHz FSB
- Intel® 945GSE North & ICH 7-M South Bridge Chipset
- On board DDR 2 memory + SODIMM, Up to 1.5 GB w/o ECC
- 1 Mini PCI & 1 Mini PCI-E expansion slot
- Dual display VGA + DVI
- 2.5W Speaker out
- Total up to 3 COM ports, Isolation D-I/O
- DC: 6V ~ 36V power input

## Specifications

### LCD Technology / size

- 12.1" 18 bit LVDS TFT-LCD

### Resolution

- 800 x 600 , 262K colors

### Brightness

- 370 cd/m<sup>2</sup>

### Pixel Pitch

- 0.3075 x 0.3075 mm

### Contrast Ratio

- 500:1

### View Angle (H-V)

- 120° / 100°

### Backlight MTBF

- Long life CCFT 50,000hrs

### Waterproof and Dustproof

- IP65 , NEMA 4 Compliant front panel

### Touch Screen controller

- Support 5 Resistor type touch screen

### Dimension

- 313 (W) x 69.6(D) x 239 (H) mm

### Processor

- Support Intel® Atom N270 1.6 GHz low power Processor
- 437 pins package, 533 MHz FSB, 512KB L2 Cache

### Chipset

- Intel® 945GSE North & ICH 7-M South Bridge Chipset

### Memory

- On board 512MB + 1 SODIMM Socket,  
Up to 1.5 GB w/o ECC, 533 MHz DDR 2 Memory

### BIOS

- Award System BIOS
- Support Console Redirection & Power On After Power failure

### Disk Drive Storage

- 1 channel SATA interface + 1 internal CF module slot

### Expansion

- 1 Mini PCI + 1 Mini-PCI-E expansion slot

### Ethernet

- 1 Realtek 8111C 100/1000 Mbps LAN interface with Wake-On-LAN & DMI

### Watchdog timer

- Programmable WDT from 1 to 255 seconds/minutes

### Display Function

- Support high resolution & 1080i VGA display

### Audio

- ALC662-GR Codec supports Speaker-out

### RS-232 / 485 support DC output power

- 1 DB-9 COM port w/ optional DC-output

### Support Digital I/O w/ isolation protection

- 3 D-In, supports Dry / Wet contact, low level 0~3V, High level 10 ~ 50V. 2500V isolation protection
- 2 D-Out, 500 mA drive capability. 2500V isolation protection

### Super I/O

- ITE 8712 & Fintek 81216 Super I/O

### Extend I/O

- Screw-Lock DC-9 ~ 30V power input, 3-pin connector
- 2 DB-9 for RS-232 / 485, 1 DB-9 for 2 RS-232
- USB x 2, 1 RJ-45 100/1000 Mbit LAN connector
- 1 DB-15 for VGA + 1 DVI , 1 Speaker out connector
- Power LED + HDD LED, 1 Power button

### Internal I/O interface

- 1 Mini PCI + 1 Mini-PCI-E expansion slot
- 1 CF slot, 1 SATA storage interface
- Total up to 4 D-In, 4 D-Out internal connector
- 1 x 5.1 channel Audio, CD-in, pin header

### Power Supply

- DC: 9V~30V / 2 A input

### Power ON/OFF mode

- AT or ATX Power ON/OFF mode

### Environment

- Operation temperature: -20°C ~ 50°C
- Storage temperature: -20°C ~ 80°C
- Relative humidity: 10% ~ 90% (Non-condensing)

### Certification

- CE Class A
- FCC Class A

## Ordering Guide

Specification may change without notice

Ordering NO.	LCD	Resolution	CPU	Memory	DB-9 RS-232/485	DVI I/F	Isolation D-I/O
LOTUS 12123-865	12.1 "	800 x 600	N270 1.6Ghz	512MB	232/485x2, 232x1	Avail	3 D-IN , 2 D-OUT

### Optional order :

- 60W / 120W Power Adapter , HDD , SODIMM Memory
- Wireless LAN Module , Anti-Vibration HDD drive bay

# Lotus 12123-6 external I/O

