

NPM0800AT

8" TFT LED SVGA 4:3 Flush Panel PC with Intel® Atom™ D525, 1.8GHz, Touch Screen, 1GB DDR3, 4 x USB, 2 x COM and VGA



Main Features

- 4:3 8" Fanless Panel Computer
- Intel® Atom™ D525, Dual Core, Low Consumption CPU
- Flush Panel by 5-wire Touch Screen
- Dual GbE/ 2nd display-VGA/ Line-in/ Line-out/ MIC-in/ PS2 KB/MS
- USB x 4/ 1 x mini-PCle sockets/ 1 x CF
- 1 x RS232/ 1 x RS232/ 422/ 485/ 1 x GPIO
- DDR3 1GB / 2.5" HDD Bracket
- Optional Wi-Fi Module / 2.5" HDD
- IP65 Compliant Front Panel
- Mounting Support: Panel/ Wall/ Stand/ VESA 100mm x 100mm

Product Overview

Incorporated a 8" 4:3 touch screen LCD panel with resolutions up to 800x600 (SVGA) and 400 nits brightness, the NPM0800AT is fanless Panel PC based on the Atom™ D525 processor. The industrial motherboard is reengineering to have RAM and mini-PCle aligned in the same side of the board with its Intel® Atom™ D525 CPU. This dedicated motherboard benefits users both in future capability expansion and ease for maintenance. The Panel PC comes with flush panel design and can have IP65 front for industrial applications. The touch screen provides the durable, reliable, and scratch-able benefits for easy maintenance in wide applications.

The ultra slim NPM0800AT makes it become industrial slimmest model for space-critical applications, such as, access control, small automation machineries, forklift and truck etc. Even though the size is compact, the I/O functionalities- 1x power switch, 1x reset, 1x RS-232, 2x USB, 1x Line-out and 1xVGA- aren't scarified. For more sophisticated automation process, the NPM0800AT provides richer I/O than other 8" Applied Panel PCs. Except for the standard specifications of 1x power switch, 1x reset, 1x RS-232, 2x USB, 1x Line-out, 1x VGA, APCC 0820T adds extra functionalities including two additional USB, 1x Line-in, 1x Mic-in, 1x RS232/422/485, 1x GPIO and PS/2 keyboard and mouse.

Specifications

Panel

- > LCD Size: 8", 4:3
- > Resolution: SVGA 800x600
- > Luminance: 400cd/m²
 - Contrast ratio: 500
 - LCD color: 262K
 - Viewing angle: 50(U), 70(D), 70(L), 70(R)
 - Backlight: LED
- > Touch screen: 5-wire resistive (flush panel type)
- > Touch light transmission: 82%
- > Touch interface: USB

System

- > CPU: Intel® Atom™ D525, 1.8GHz
- > BIOS: AMI BIOS
- > System chipset: Intel® ICH8M
- > System memory: 1x 204-pin DDR3 SO-DIMM socket, 1G DDR3 (Default), Support up to 2GB DDR3 800, Non-ECC and Un-buffered

Storage:

NPM0800AT: (Choice of one)

- SSD: CF socket by IDE support Type I/II compact Flash card (Build in SATA to CF converter board)
- Hard drive bay: optional 2.5" SATA HDD
- SATA DOM (Optional)
- HDD and choice of CF or SATA DOM

Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)
H/W status monitor: Monitoring system temperature, and voltage

Expansion: 1x Mini-PCle sockets



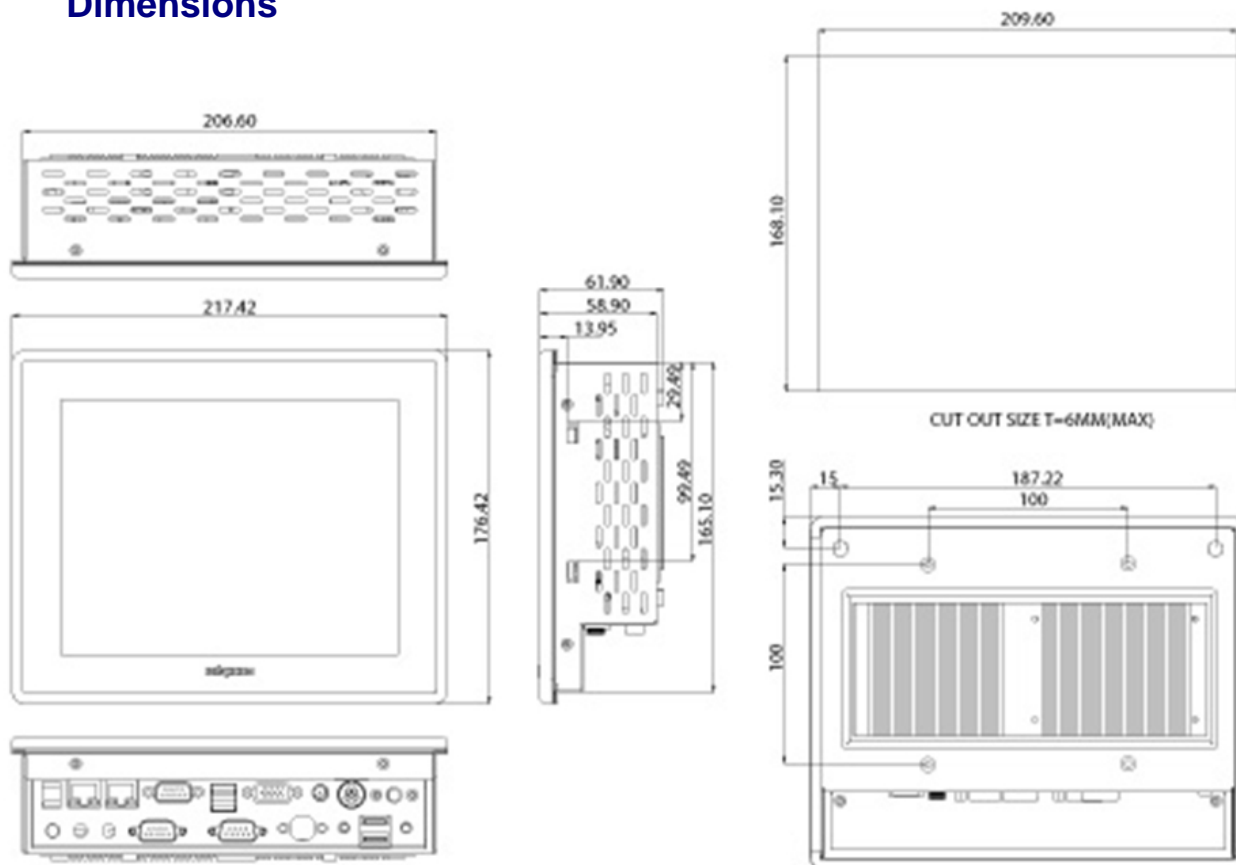
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Model: NPM0800AT



Dimensions



Rear I/O

GPIO: 4 x digital in / 4 x digital out
COM #1: RS232
COM #2: RS232/422/485
Ethernet: 2 x RJ45
2nd display VGA port: 1 x DB15
Audio port: 1 x Line out; 1 x Line in; 1 x MIC-in
USB: 4 x USB 2.0
PS2 keyboard/ mouse
Power switch
Reset button

Audio

> AC97 codec: Realtek ALC888
> Audio interface: Line out/Line in/MIC-in Audio Jack

Ethernet

> LAN chip: dual Intel® 82574L Gigabit LAN
> Ethernet interface: 10/100/1000 Based-Tx Ethernet compatible

Mechanical & Environment

> Color: pantone black
> IP protection: IP65 front
> Mounting: panel/ wall/ stand/ VESA 100mm x 100mm
> Power input: 12V DC
> Power adaptor: Optional AC to DC power adaptor (+12V, 60W)

> Vibration:

IEC 68 2-64 (w/ HDD)
0.5Grms @sine, 5~500Hz, 1hr/axis (HDD Operating)
2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (Non-operating)

> Shock:

IEC 68 2-27
HDD: 20G@wall mount, half sine, 11ms

> Operating temperature: -5°C to 50°C
> Storage temperature: -20°C to 75°C
> Operating humidity: 10%~90% relative humidity, non-condensing
> Dimension:

APPC0820T - 217.4 x 176.4 x 61.9 mm

> Weight:

APPC0820T - 2Kg
APPC0820TC - 1.7Kg

Certifications

> CE approval
> FCC Class A