

8" SVGA AFOLUX PPC

**AFL-08B-N270**

Intel® Atom™ Processor N270 1.60 GHz

1

Automation  
Panel  
Solutions

2

All-in-One  
Touch POS

3

Digital  
Signage

4

Video Wall  
Controller

5

RISC-  
based  
Solutions

6

PACSmate  
Medical

7

Optional  
Peripherals

Camera with Low Light Capability  
Digital Microphone

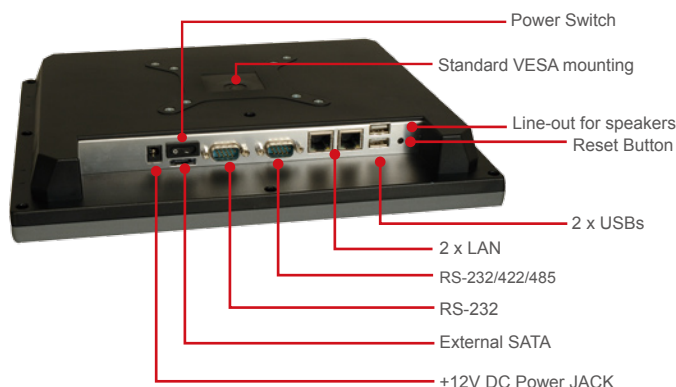
**Features**

- 8" LED backlight LCD panel with resistive touchscreen
- Built-in 300K pixel camera with low light capability
- Built-in digital microphone
- Selectable AT/ATX power mode via internal switch
- Fanless cooling system
- System memory up to 2 GB SDRAM
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in Two 1.5 W speakers
- CompactFlash® Type II
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)

**Specifications**

| Model                           | AFL-08B-N270-R10                                                                                                                                                                             |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size                        | 8"                                                                                                                                                                                           |
| Max Resolution                  | 800 x 600                                                                                                                                                                                    |
| Brightness (cd/m <sup>2</sup> ) | 300                                                                                                                                                                                          |
| Contrast Ratio                  | 400 : 1                                                                                                                                                                                      |
| LCD Color                       | 262K                                                                                                                                                                                         |
| Pixel Pitch (mm)                | 0.0675 (H) x 0.2025 (V)                                                                                                                                                                      |
| Viewing Angle (H-V)             | 130° / 120°                                                                                                                                                                                  |
| Backlight MTBF                  | 30000 hrs (LED backlight)                                                                                                                                                                    |
| SBC Model                       | AFLMB-945GSE-N270-R10                                                                                                                                                                        |
| CPU                             | Intel® Atom™ Processor N270 (512K Cache, 1.60 GHz, 533 MHz FSB)                                                                                                                              |
| Chipset                         | Intel® 945GSE + ICH7M                                                                                                                                                                        |
| RAM                             | Supports one 400MHz or 533MHz DDR2 SO-DIMM (2GB Max.)                                                                                                                                        |
| I/O Ports                       | 1 x RS-232 COM Port<br>1 x RS-232/422/485 COM port<br>2 x RJ-45 for Giga LAN<br>2 x USB 2.0<br>1 x Power Switch<br>1 x Reset Button<br>1 x External SATA<br>1 x Audio Port<br>1 x Power Jack |
| SSD                             | CF Type II                                                                                                                                                                                   |
| Watchdog Timer                  | Software programmable supports 1~255 sec. System reset                                                                                                                                       |
| Audio                           | AMP 1.5W + 1.5W (internal speakers)                                                                                                                                                          |
| Camera Module                   | 300K pixel camera with Digital Microphone                                                                                                                                                    |
| Expansion                       | 1 x Wireless Lan 802.11 b/g Module (internal PCIe mini card interface)<br>1 x Bluetooth module (internal USB interface, Bluetooth V2.0)                                                      |
| Construction Front Panel        | ABS + PC Plastic front frame                                                                                                                                                                 |
| LED Function                    | 1 x Power ON/OFF LED on Front Panel                                                                                                                                                          |
| Mounting                        | Panel, Wall, Rack, Stand and Arm<br>VESA 75mm x 75mm                                                                                                                                         |
| Front Panel Color               | Gray 7539U                                                                                                                                                                                   |
| Dimension (WxHxD) (mm)          | 234 x 177 x 43                                                                                                                                                                               |
| Operation Temperature (°C)      | -10°C ~50°C                                                                                                                                                                                  |
| Storage Temperature (°C)        | -20°C ~60°C                                                                                                                                                                                  |
| N/G Weight                      | 0.8 Kg                                                                                                                                                                                       |
| IP Level                        | IP64 Front Panel                                                                                                                                                                             |
| Safety & EMC                    | CE / FCC / CB / CCC                                                                                                                                                                          |
| Touch Screen                    | Resistive Type 5-Wire (Touch controller IC is on board)                                                                                                                                      |
| Power Adapter                   | P/N: 63000-FSP036RAB608-RS<br>36W Power Adapter<br>Input: 90VAC~264VAC, 50/60Hz<br>Output: 12VDC                                                                                             |
| Power Requirement               | 12VDC                                                                                                                                                                                        |
| Power Consumption               | 25W                                                                                                                                                                                          |

## Fully Integrated I/O



## LED-backlight PPC Delivers Vivid Images

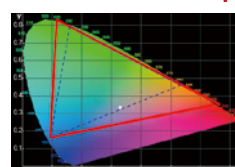
AFL-08B-N270 is the first panel PC of its compact size to incorporate an LED backlight - being better than previous CCFL illumination for the viewing and editing of pictures.

### LED backlighting PPC displays clear and vivid pictures!

#### Enhancement of picture image quality on LCD screen

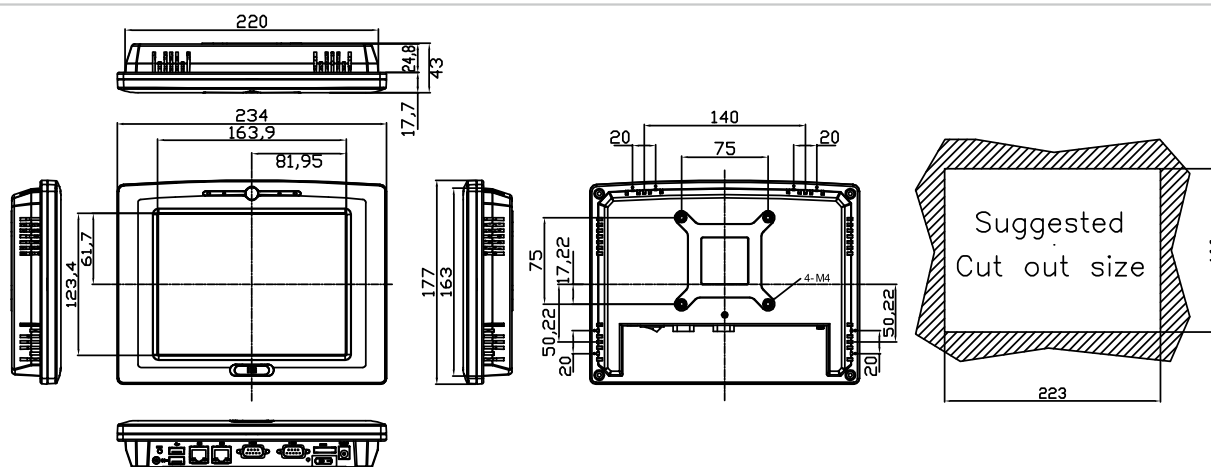
- Wider color gamut
- More even screen illumination
- Longer display life
- Low temperature operation and greater power efficiency

#### Color Gamut Comparison



Thus LED backlight for LCD enables seeing the color on LCD screen as we see the colors in nature.

## Dimensions (Unit: mm)



## Ordering Information

| Part Number               | Description                                                                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFL-08B-N270/WT-R/1GB-R10 | 8" 300 cd/m <sup>2</sup> , SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g wireless module, bluetooth module, touch screen, 300K pixel Camera with Digital Microphone, 1GB DDR2 533MHz, RoHS |

Note: WiFi 802.11 draft N is upgradable.

## Options

|                                   |                             |
|-----------------------------------|-----------------------------|
| Panel mounting kit                | AFLPK-12                    |
| Wall mounting kit                 | AFLWK-12                    |
| Rack mounting kit                 | AFLRK-08                    |
| ARM                               | ARM-11-RS / ARM-31-RS       |
| Stand                             | STAND-A08 / STAND-100-RS    |
| VSTAND                            | VSTAND-A10                  |
| 9~30VDC to 12VDC converter module | IDD-930160-KIT              |
| OS: Win CE 6.0 (128 MB CF card)   | AFLCF-08-N270-CE060-R10     |
| OS: Win XPE(1 GB CF card)         | AFLCF-08-N270-XPE-R10       |
| OS: LINUX(2 GB CF card)           | AFLCF-08-N270-LNX-R10       |
| Hybrid Card Reader                | AFLP-08BMSI-U               |
| Magnetic Stripe Reader            | AFLP-08BMSR-U               |
| DC 12V Input UPS                  | AUPS-A10-R10 (7.4V 3800mAh) |
| DC 9~36V Input UPS                | AUPS-A20-R10 (7.4V 3800mAh) |

Note: Win CE application without digital microphone function

## ISMM Support Functions

|              | Voltage | Fan | Smart Fan | Temperature | WDT | Cash Drawer |
|--------------|---------|-----|-----------|-------------|-----|-------------|
| AFL-08B-N270 | V       |     |           | V           | V   |             |

## Packing List

| Item          | Part Number           | Q'ty | Specification                                                                    |
|---------------|-----------------------|------|----------------------------------------------------------------------------------|
| Screws Pack   | 44013-030041-RS       | 4    | M3;5mm                                                                           |
| Power Adapter | 63000-FSP036RAB608-RS | 1    | 90~264V AC; 12V DC; 36W                                                          |
| Power Cord    | 32000-000002-RS       | 1    | 1750mm (EU or US, Which type of cord is shipped depends on the shipment country) |
| Utilities CD  | 7B000-000087-RS       | 1    |                                                                                  |
| Touch Pen     | XTR104-0002-RS        | 1    |                                                                                  |