

# AFOLUX AFL-057A

## 5.7" Power over Ethernet (PoE) All-in-One Panel PC



### Features

- 5.7" LED backlit all-in-one Panel PC with resistive touchscreen
- Intel® Atom™ processor Z510P/Z530P up to 1.6 GHz
- Lower power consumption and fanless operation
- IEEE802.3af Power Over Ethernet (PoE) compliant
- 4-Wire resistive touchscreen
- One CompactFlash® slot
- Wide operating temperature capability: -20°C to 60°C
- IEI One Key Recovery solution for rapid OS backup and recovery (over 4 GB storage capacity recommended)
- IP64 compliant front panel



PoE Switch



The Most Compact PC-based PoE Panel PC Reduces the Cost of Project Deployment



## PoE Panel PC eliminates Need for AC Outlets



## Power over Ethernet Reduces the Cost of Project Deployment

### Lower cost of system installation



No need for electricians to install conduit, electrical wiring, and outlets throughout the enterprise.



### No wiring hassles! Install anywhere a RJ-45 jack is present.

The AFL-057A can be installed with minimal hassle and disruption in any location where a RJ-45 Ethernet jack is present including industrial, retail and home environments.



Transportation



Production Line Control



Digital Signage

### Reliable PoE Power Management and Scheduling

If the AFL-057A fails when connected to the Lite-managed PoE Ethernet Switch (IPS-2042TX), the switch will automatically send an alarm. The PoE switch will then either reboot or shut down the device depending on the user setting. Users of the PoE can also schedule the time to power on the attached devices with power scheduling settings.



PoE Scheduling



If the PoE PD devices fail, the PoE switch will send the alarm automatically.

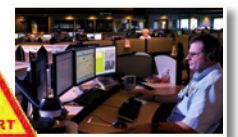


Cat. 5 cable



Industrial PoE Ethernet Switch

Ethernet Cable (RJ-45)

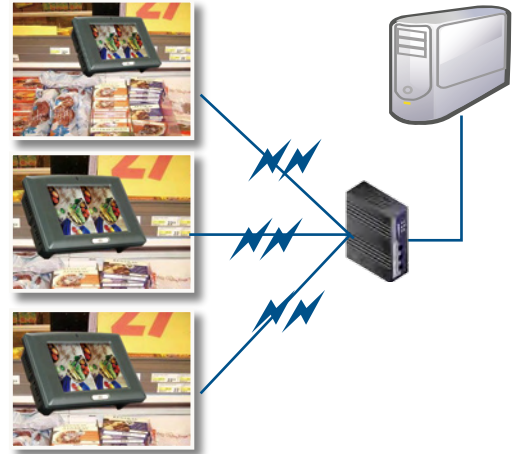


Security Control Center

## High graphic performance supports H.264, MPEG1/2/4, VC1/WMV9 high definition decode

The AFL-057A is powered by Intel® Z510P/Z530P Processor up to 1.6GHz. Full hardware decoding of H.264, MPEG2, VC1, and WMV9 is supported, eliminating the need for software decode and overloading the processor. Multitasking is optimized with amazingly low CPU resource utilization.

## Application: Digital Signage Player on a supermarket shelf



## Smooth video playback with Intel® Atom™ Z530P Processor

|  |   |                |  |                 |
|--|---|----------------|--|-----------------|
| <p><b>H.264 Playback CPU Usage</b></p> <p>SW: Power DVD V8.0<br/>Type: H.264 DVD 1080p</p> | <p><b>Intel® Atom™</b></p> <p>80~100%</p> <p>Without Hardware Decoder:<br/>Lagged image with higher CPU usage</p> | <p>Laggard</p> | <p><b>Z530</b></p> <p>20~30%</p> <p>With Hardware Decoder:<br/>Good image quality with lower CPU usage</p> | <p>Smoothly</p> |
|--|---|----------------|--|-----------------|

## 5.7 inch LED backlight Panel PC delivers better image

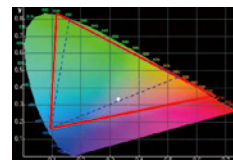
AFL-057A is designed with an LED backlight better than previous CCFL illumination for the viewing of images.



### Vivid Image!

- 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



— LED  
- - - Normal CCFL

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

## One Key Recovery

IEI's useful One Key Recovery solution includes exclusive technology to recover and backup your operating system with just one simple click. An IEI Recovery Kit CD is shipped with every AFL-057A.

When you face the Problems:

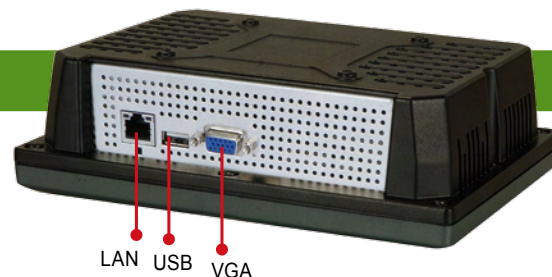
- Severe Virus Attack
- Operating System Crash
- Natural or Man-made Disasters



One Key Recovers your System!



## I/O Interface



## AFL-057A Specifications

|                                 |   |                                   |  |
|---------------------------------|---|-----------------------------------|--|
| <b>Model</b>                    | <b>AFL-057A-Z510/Z530</b>   | <b>Watchdog Timer</b>             | Software programmable supports 1~255 sec. System reset |
| LCD Size                        | 5.7"  | <b>Audio</b>                      | AMP 1.5 W+1.5 W  |
| Max Resolution                  | 640 x 480   | <b>Construction Material</b>      | ABS + PC Plastic front frame                           |
| Brightness (cd/m <sup>2</sup> ) | 400   | <b>LED Functions</b>              | 1 x Power ON/OFF LED on front panel                    |
| Contrast Ratio                  | 300:1   | <b>Mounting</b>                   | Panel, Wall, Stand and Arm (VESA 75 mm x 75 mm)        |
| LCD Color                       | 262k  | <b>Front Panel Color</b>          | Gray 7539U   |
| Pixel Pitch (mm)                | 0.06(H) x 0.18(V)   | <b>Dimension (WxHxD) (mm)</b>     | 180 x 135 x 55   |
| Viewing Angle (H-V)             | 140°(H) / 100°(V)   | <b>Operation Temperature (°C)</b> | -20°C~60°C   |
| Backlight MTBF                  | 50000hrs (LED backlight)  | <b>Storage Temperature (°C)</b>   | -20°C~60°C   |
| <b>CPU</b>                      | Intel® Atom™ Processor Z530P 1.6 GHz<br>Intel® Atom™ Processor Z510P 1.1 GHz                      | <b>Net Weight</b>                 | 0.8 kg   |
| <b>Chipset</b>                  | Intel® SCH - US15W  | <b>IP Level (front panel)</b>     | IP 64  |
| <b>RAM</b>                      | 1 x 200-pin SO-DIMM DDR2 533/400 MHz SDRAM (max. 2 GB)  | <b>Safety &amp; EMC</b>           | CE, FCC, CCC, CB                                       |
| <b>I/O Ports and Switches</b>   | 1 x RS-232/422/485 COM port<br>1 x RJ-45 for GbE (PoE 802.3af)<br>1 x USB 2.0<br>1 x Reset button | <b>Touch Screen</b>               | Resistive Type 4-Wire (onboard touch controller IC)    |
| <b>SSD</b>                      | CF type II  | <b>Power Consumption</b>          | 12 W   |

## Options

| Item                                   | Part Number                          |
|--|--------------------------------------|
| Panel mounting kit                     | AFLPK-12                             |
| Wall mounting kit                      | AFLWK-12                             |
| Rack mounting kit                      | AFLRK-057                            |
| ARM                                    | ARM-11-RS / ARM-31-RS                |
| Stand                                  | STAND-A08 / STAND-C12 / STAND-100-RS |
| VSTAND                                 | VSTAND-A07                           |
| Industrial PoE Switch (4 port P.S.E)   | IPS-2042TX                           |
| OS: Win dows XPE (1 GB CF card)        | AFLCF-057-US15W-XPE-R10              |
| OS: Win dows 7 Embedded (2 GB CF card) | AFLCF-057-US15W-WIN7-R10             |
| OS: Win dows CE 6.0 (1GB CF card)      | AFLCF-057-US15W-CE6-R10              |
| Hybrid Card Reader                     | AFLP-08AMSI-U                        |
| Magnetic Stripe Reader                 | AFLP-08AMSR-U                        |

## Packing List

| Description  | Part Number        | Amount | Specification |
|--------------|--------------------|--------|---------------|
| Screws Pack  | 44013-0300441-RS   | 4      | M3 ; 5 mm     |
| Utilities CD | 7B000-000087-RS    | 1      |               |
| Touch Pen    | 43125-0002C0-00-RS | 1      |               |

## Ordering Information

| Model                         | Description  |
|-------------------------------|--|
| <b>AFL-057A-Z530/R/1G-R10</b> | 5.7" 400 cd/m <sup>2</sup> VGA fanless panel PC with Intel® Atom™ Z530 1.6 GHz, PoE IEEE 802.3 af, touch screen, 1 GB DDR2 553 MHz, RoHS |
| <b>AFL-057A-Z510/R/1G-R10</b> | 5.7" 400 cd/m <sup>2</sup> VGA fanless panel PC with Intel® Atom™ Z510 1.1 GHz, PoE IEEE 802.3 af, touch screen , 1GB DDR2 553 MHz, RoHS |

## Dimensions

