

AFL-F08A 8" Flat-Bezel Panel PC



The new 8" panel is a full-flat surface touchscreen PC. The AFL-F08A includes all necessary input/output interfaces to control any subsystem or automation hardware in your office, business, or home. The new stylish design is easily integrated into any environment. The front panel is IP64 compliant. An optional projected capacitive touchscreen provides a multi-touch interactive user experience.

Features:

- 8.0" LED TFT-LCD with stylish Flat-bezel touchscreen
- Optional projected capacitive touchscreen supports multitouch
- Fanless system with Intel® Atom™ Processor N270 (512K Cache, 1.60 GHz, 533 MHz FSB)
- Hot keys controlled by cap-sensor in the front panel
- Optional color change kit matches the style of any decoration
- Wireless WI-FI LAN 802.11 b/g
- Integrated Bluetooth 2.0 module
- Build-in 300K pixel CMOS camera with low-light capability
- Two 1.5W speakers and microphone for multimedia applications
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Full-flat Surface Touchscreen

The AFL-F08A flat-bezel design covers the entire front frame (bezel) of standard LCD to make the screen and bezel appear to blend together. The seamless flat-bezel touchscreen system offers a stylish and easy to clean surface.

Flat-Bezel Advantages:

- Better visual effects
- No edge effects
- Sleek and stylish
- Easy to clean



Applications:



OFFICE



LIVING ROOM



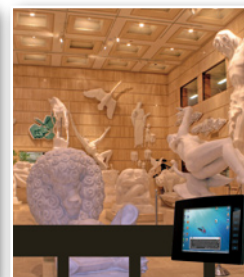
YACHTING



KITCHEN



AUTOMATION



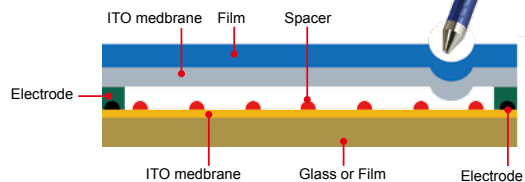
MUSEUM

5-wire Resistive Touch sensor



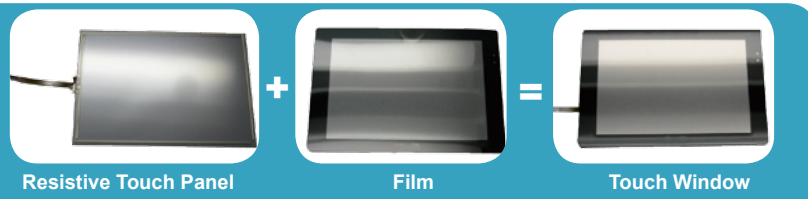
Operational Theory

There are two major parts of resistive touch panel: ITO film and ITO glass. Two conductive layers are separated and isolated by the dot spacers scattered evenly on the ITO glass. Only when the proper activation force is applied onto the ITO film, these two conductive layers are contacted and the analog signal (the voltage) will be sent out to the touch panel controller then transferred into a digital signal for system processing.



Touch Window Architecture

The AFL-F08A utilizes the touch window technology which consisting a decorative film overlay mounted in front of the touch panel to achieve the true-flat surface of a flat-bezel touch system.



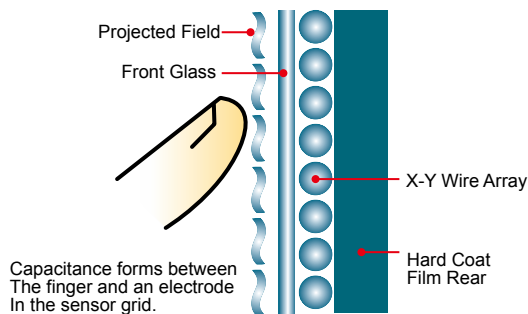
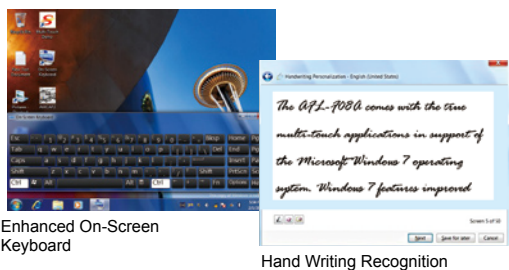
Projected Capacitive Touch sensor

Operational Theory

PCT is based on the principle of embedding an array of micro-fine sensing wires within a multi-layer laminated screen behind a protective front surface, ensuring that the sensing medium is well-protected from accidental and malicious damage.

Windows® 7 with Multi-touch Capable

The AFL-F08A comes with the true multi-touch applications in support of the Microsoft Windows 7 operating system. Windows 7 features improved touch and gesture support. With Windows 7, handwriting recognition is faster, more accurate, and supports more languages

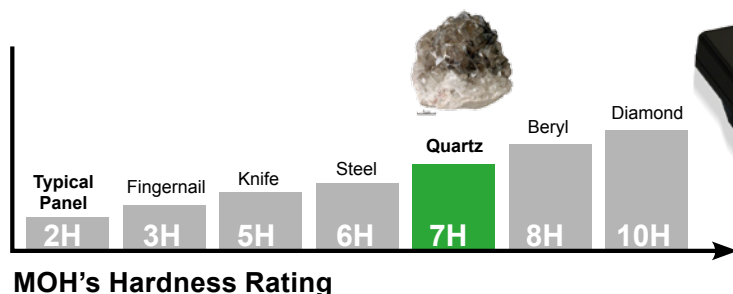


Intuitive multi-touch display



● 7H Anti-scratch Surface (Projective capacitive type touch screen)

Projected Capacitive touch technology utilizes a durable glass front surface. 7H hardness is stronger than the conventional touch panel and therefore is able to protect the screen from damage.



● Multimedia Hardware Device Ready

Integrated webcam on the Panel PC, including a native 300K pixel; low-light function, and 30fps at VGA, is best suited for small-to-medium sized meetings and conferences held in facilities like local government councils, hotel conference rooms, training and educational venues and company boardrooms without external device installation.



- VGA CMOS Camera**
- Auto white balance
 - Auto exposure
 - Auto compensation
 - Focus range of 25 cm to Infinity
 - Flip Control Option

Webcam Specifications

- VGA resolution image sensor
- Video resolution: 640x480, 352x288, 320x240, 176x144, 160x120.
- Frame rate: 640x480@ 30fps max.
- Storage Format of Image: AVI
- Storage Format of Photograph: BMP, JPEG



Picture Frame In-Wall Mount

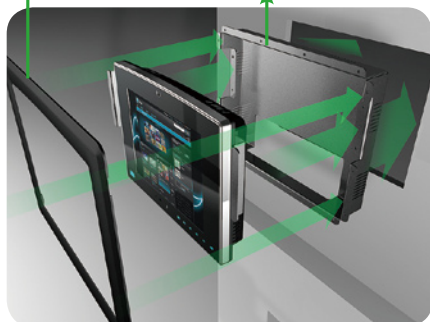
This optional kit includes a decorative front plate and wall mount enclosure to securely house the the AFL-F08A panel PC. The enclosure includes knockouts for power and I/O interface cables.



3.7mm

Decorative front plate

In-Wall Enclosure

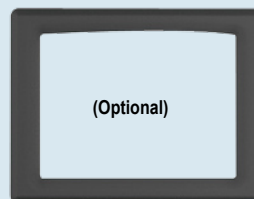


● Optional Decorative Kit:

DIM.
300mm x 230mm x 3.7mm



+



(Optional)

=



Restaurant Interactive Multi-touch Table

Applications



The AFL-F08A interactive system can be mounted in tables from which your customers can order, track and pay for their meal. The terminals can also be used to play digital games while waiting for the food to be served.



Casino Customer Relationship Management

Applications



The user friendly all-in-one system will help Casino managers and dealers to identify players, calculate, and record winnings. Easy connection to peripherals such as card readers and ticket reader/printers. Convenient and reliable communication with system management and servers through LAN or Wireless LAN.



OS Ready for Applications

Windows® CE based Terminal easy for Application Development

Windows Applications



Note: OS image only support single touch

Application Development Support

- Win32 (C/C++)
- MFC (C++)
- NET Compact Framework (C# and VB .NET)
- ATL (Active Template Library)
- COM and DCOM
- XML
- JScript 5.6

Networking

- Standard Modem Support for Dial Up
- Networking
- Network Utilities (IpConfig, Ping, Route)
- TCP/IP, TCP/IPV6
- Windows Networking API/Redirector (SMB/CIFS)
- Winsock Support
- FTP Server, Web Server (HTTPD), Telnet Server

Windows® XP Embedded



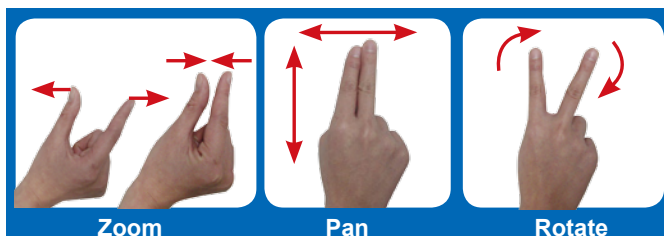
- Include:
- Window XPE OS image with license
 - Thin Client turnkey solutions



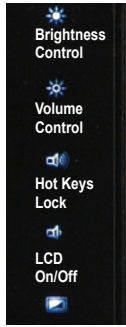
Windows® 7 Embedded

Multi-touch Scenarios:

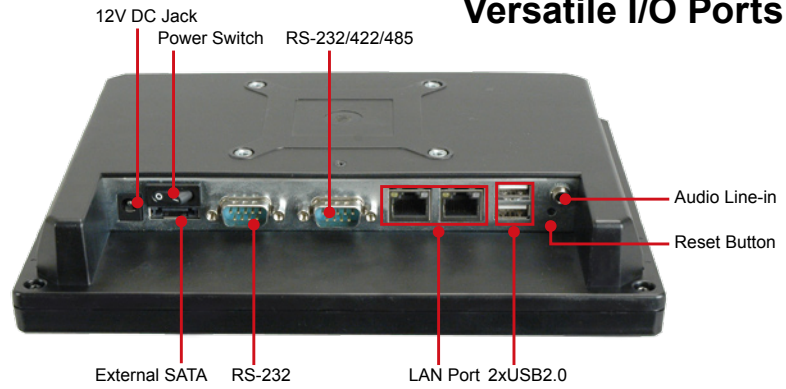
- Navigating the internet
- Reading and sorting email
- Viewing photos and video
- Playing casual games
- Navigating and arranging files, folders and windows.



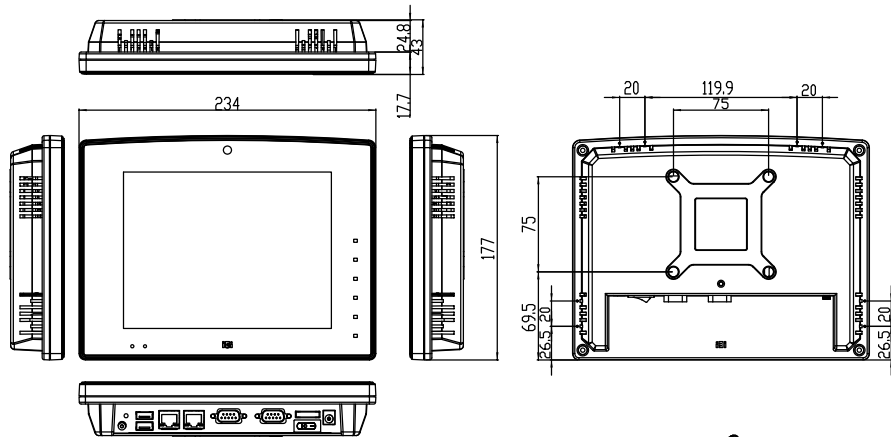
Hot Keys Controlled by Cap-Sensor



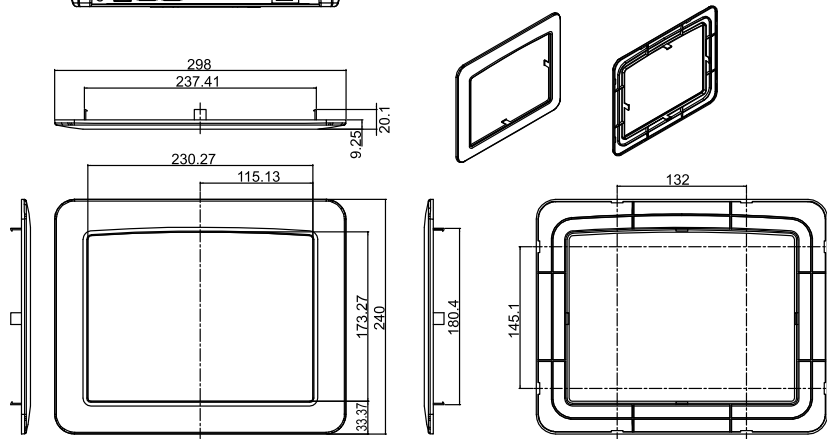
Versatile I/O Ports



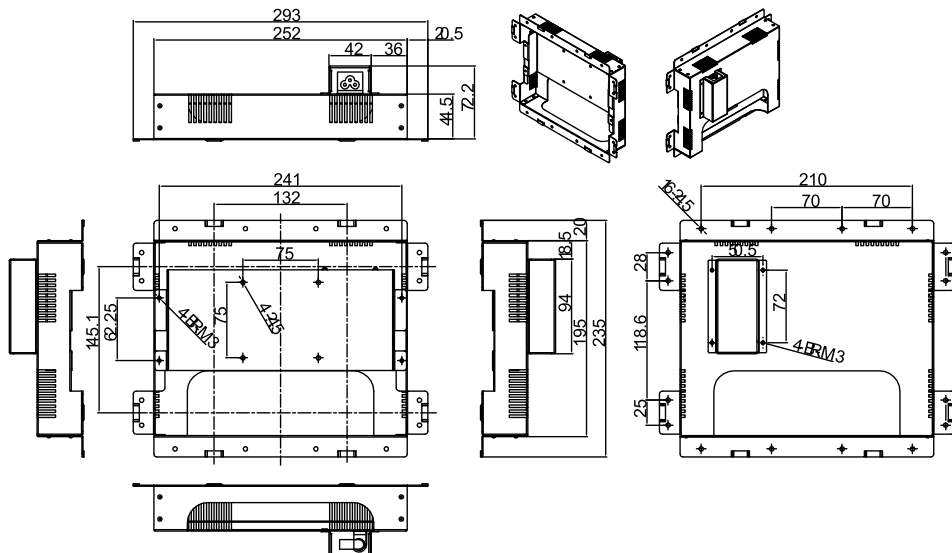
AFL-F08A Dimensions (Unit: mm)



Decoration Kit Dimensions (Unit: mm)



In-Wall Cage Dimensions (Unit: mm)



Specifications



| | |
|---------------------------------|--|
| Model | AFL-F08A-N270 |
| LCD Size | 8" |
| Max Resolution | 800 x 600 |
| Brightness (cd/m ²) | 250 |
| Contrast Ratio | 500:1 |
| LCD Color | 262K |
| Pixel Pitch (mm) | 0.2025(H) x 0.2025(V) |
| Viewing Angle (H-V) | 140° / 130° |
| Backlight MTBF | 30000 hrs (LED) |
| 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 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port (line-out) 1 x 12V DC Power Jack 1 x External SATA |
| SSD | CF Typell |
| Watchdog Timer | Software programmable supports 1~255 sec. System reset |
| Audio | AMP 1.5W + 1.5W (internal speaker) |
| Expansion | 1 x Wireless Lan 802.11 b/g Module (internal Mini PCIe interface) 1 x Bluetooth V2.0 (internal USB interface) 300k pixel webcam |
| Front Panel Construction | ABS + PC Plastic front frame |
| Membrane Keypad | LCD On/Off, Brightness Up/Down, Volume High/Low by Cap-Sensor |
| Mounting | In-Wall, Panel, Wall, Stand and Arm VESA 75mm x 75mm |
| Front Panel Color | Black |
| Dimensions (WxHxD) (mm) | 234 x 177 x 43 |
| Operation Temperature (°C) | -10°C ~ 50°C |
| Storage Temperature (°C) | -20°C ~ 60°C |
| N/G Weight | 1.8Kg |
| IP Level | IP64 Front Panel |
| Safety & EMC | CE / FCC / CB / CCC |
| Touch Screen | Resistive Type 5-Wire (Touch controller IC is on board) or Projective Capacitive type touch screen |
| Power Adapter | 63000-FSP0401ADF03A822-RS 40W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC |
| Power Requirement | 12VDC |
| Power Consumption | 32W |

Note: WiFi 802.11 draft N is upgradable.

Ordering Information

| | Part Number | Description |
|--|-------------------------|--|
| Resistive Touch Panel | AFL-F08A-N270/R/1G-R10 | 8.0" 250cd/m ² SVGA Fanless panel PC with Intel® Atom™ N270 1.6GHz CPU,1GB DDR2 RAM,802.11 b/g WiFi,touch screen,Bluetooth,300K camera,microphone,RoHS |
| Projected Capacitive Multi-Touch Panel | AFL-F08A-N270/PC/1G-R10 | 8.0" 250cd/m ² SVGA Fanless panel PC with Intel® Atom™ N270 1.6GHz CPU,1GB DDR2 RAM,802.11 b/g WiFi, Projective capacitive Multi-Touch Panel screen,Bluetooth,300K camera,microphone,RoHS |

Options

| Item | Model |
|-----------------------------------|-----------------------------|
| 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-F08-N270-CE060-R10 |
| OS: Win XPE (1 GB CF card) | AFLCF-F08-N270-XPE-R10 |
| OS: LINUX (2 GB CF card) | AFLCF-F08-N270-LNX-R10 |
| Hybrid Card Reader | AFLP-08AMSI-U |
| Magnetic Stripe Reader | AFLP-08AMSR-U |
| DC 12V Input UPS | AUPS-A10-R10 (7.4V 3800mAh) |
| DC 9~36V Input UPS | AUPS-A20-R10 (7.4V 3800mAh) |
| In Wall Cage | AFLIWC-F08A-R10 |

Note: OS image only support single touch

Packing List

| Item | Part Number | Q'ty | Specification |
|---------------|-----------------------|------|---|
| Screws Pack | 44013-030041-RS | 4 | M3;5mm |
| Power Adpater | 63000-FSP036RAB608-RS | 1 | 90~264V AC; 12V DC; 36W |
| Power Cord | 32000-000002-RS | 1 | 1750mm; European Standard (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 | |