

AFOLUX All-in-One In-wall Panel PC

8"~15" Fanless Panel PC with Changeable Faceplate and Sticker Skin

Changeable Faceplate
Sticker Skin

Removable
Faceplate

Easy In-Wall
Mounting

Fanless

An on-board 1.6GHz Intel® Atom™ N270 CPU ensures low power requirements. Metal casting design housing replaces the fan as it helps the dissipate heat.

Changeable Faceplate/Sticker Skin

Multiple faceplate/skin sticker available to match diverse decoration styles

Easy In-wall in minutes

In-wall mounting just three simple steps: cut-out the panel , screw on and put on the faceplate

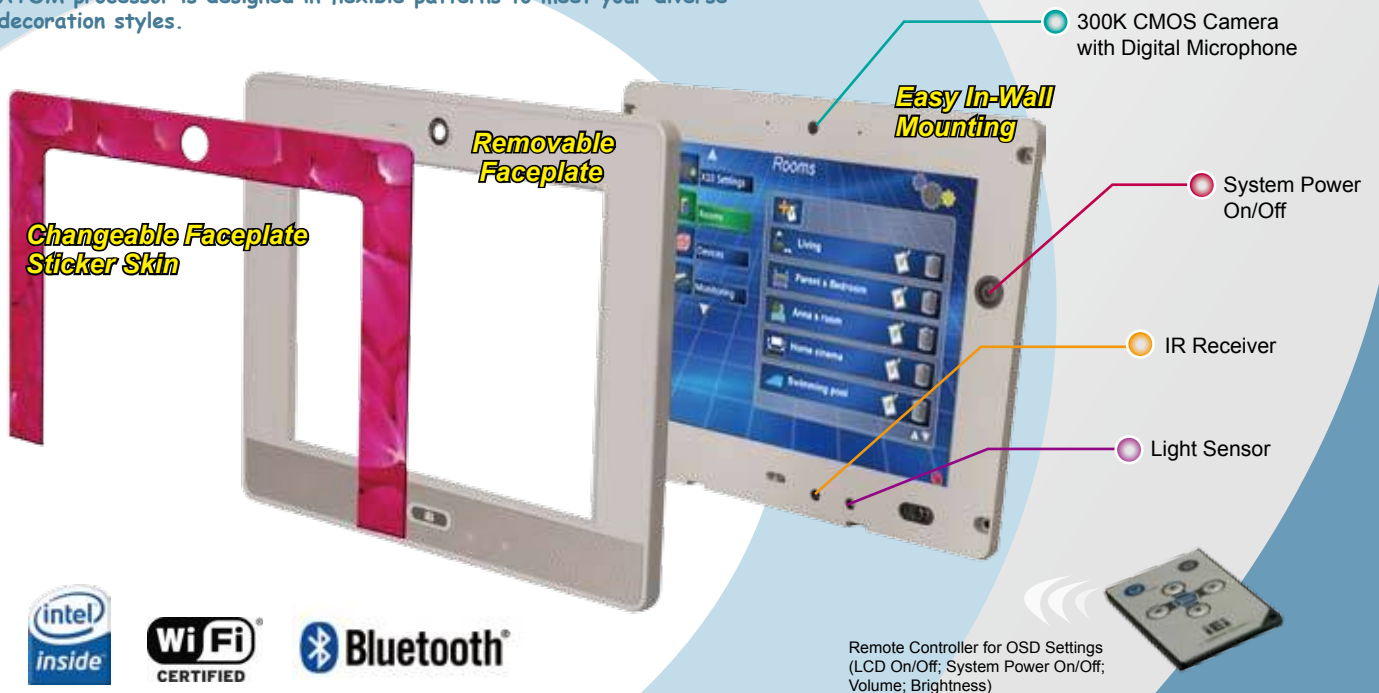
VESA Mounting Compliant

One Matches Diverse Decoration Styles!



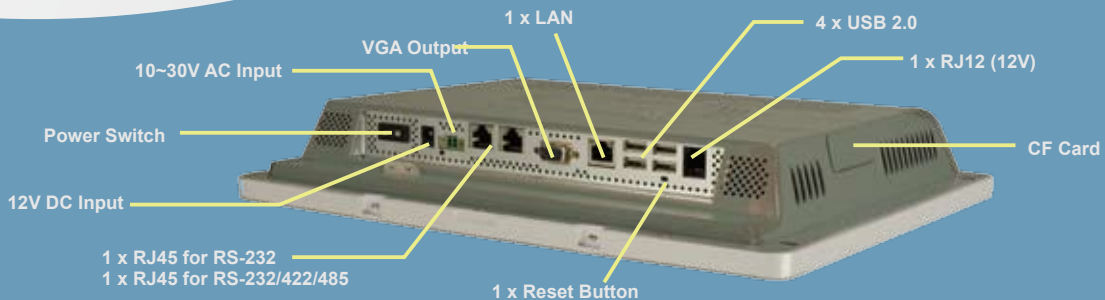
8"~15" All-in-One In Wall Touch Panel PC based on Intel® Atom™ Processor

The panelss AFL-4xxA series with streamlined design based on Intel's ATOM processor is designed in flexible patterns to meet your diverse decoration styles.



Features

- 8" ~ 15" TFT LCD with resistive touch screen.
- Fanless system with Intel ATOM process N270 1.6GHz CPU
- Changeable faceplate and sticker skin
- In-wall mechanism design allows easy to installation in minutes
- A digital I/O RJ-12 12V port provides extension
- Build-in CMOS camera with digital microphone and two 1.5W speakers for multimedia applications
- Enabling easier access to the internet through a HSDPA network (Optional)
- Built-in bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like head phones, keyboard and mouse
- VESA-mountable for flexibility in mounting and deployment
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
- IP64 front panel compliant



In the entry hall, kitchen, living room with changeable face plate...Changeful faceplate/skin sticker suitable for various in-wall environments.

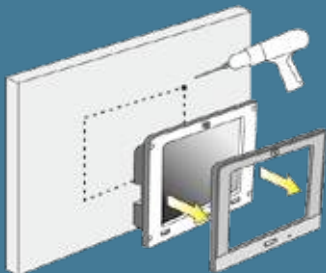


• Easy In-wall in Minutes

AFL-4xxA series was not only increases flexibility of versatile patterns of the faceplate, but also ease of installation.

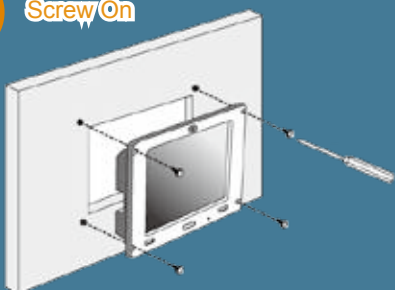
Versatile Faceplate Sticker Sin Patterns Enhance your Design Style!

A Cut Out the Panel



Select the position on the panel to mount the flat panel PC. Cut out a section from the panel that corresponds to the rear panel dimensions.

B Screw On

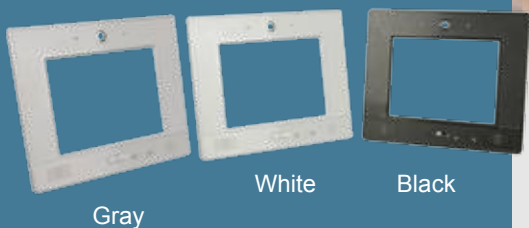


Tighten the screws that pass through the panel mounting holes until the screws are firmly secured to the panel.

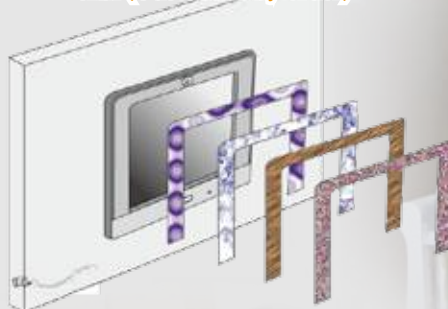
C Put on the Faceplate



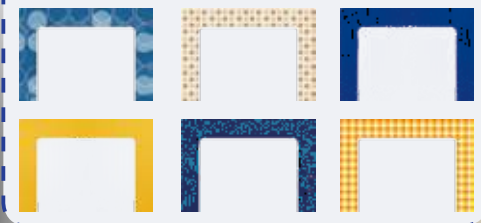
Changeable Faceplate in Gray/
White/Black Color



D Changeable faceplate sticker skin (Customize by order)



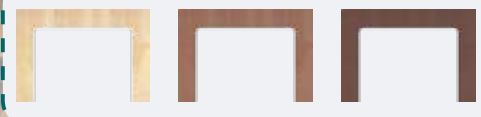
• Stylish



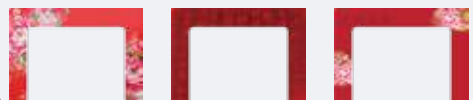
• Photo Frame



• Wooden



• Traditional Chinese



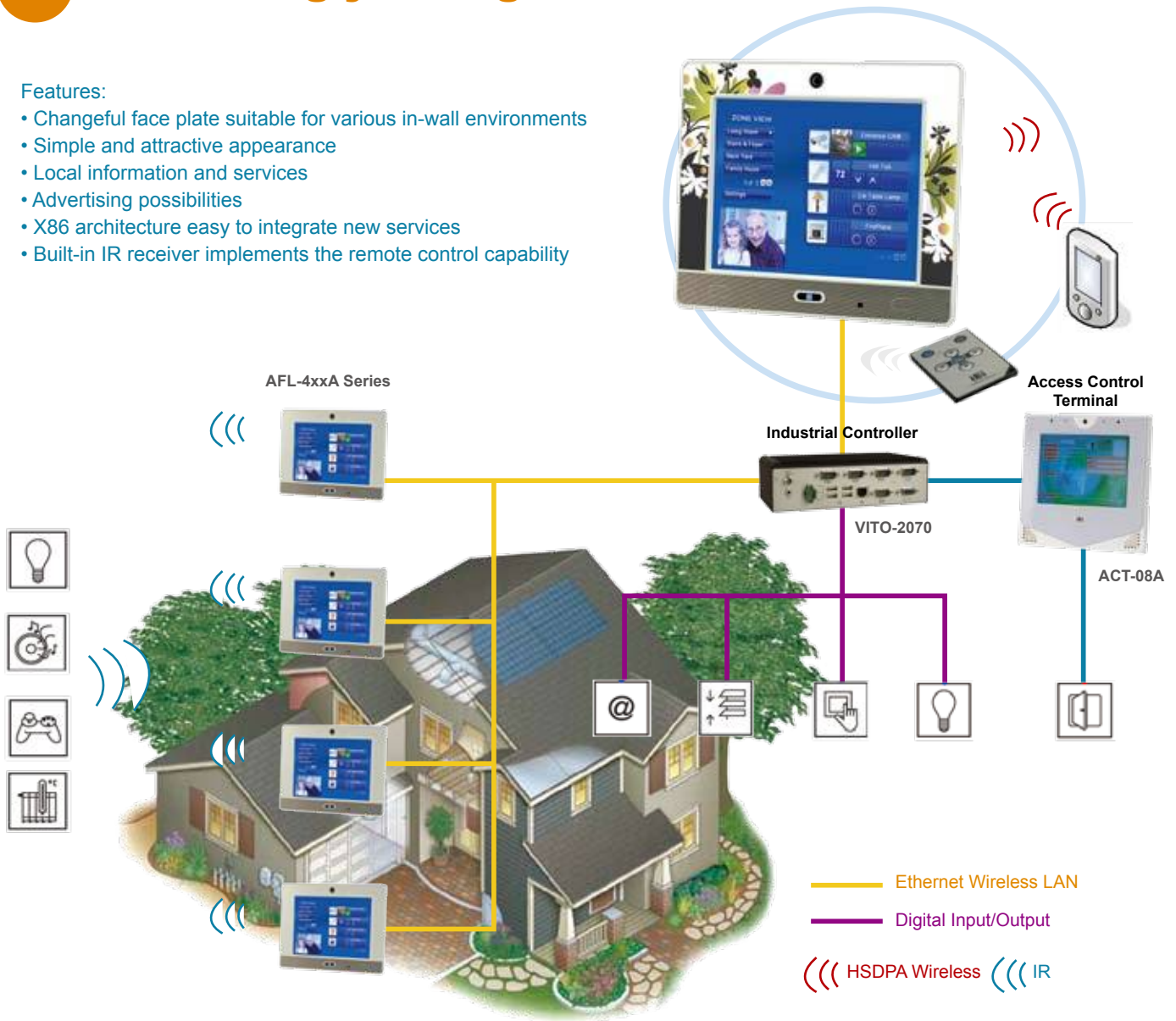
What are we going after ?

Various Applications


A Controlling your digital home !

Features:

- Changeful face plate suitable for various in-wall environments
- Simple and attractive appearance
- Local information and services
- Advertising possibilities
- X86 architecture easy to integrate new services
- Built-in IR receiver implements the remote control capability




Designing a Home Automation System




Audio Control

Telephone announcement and music from the room can follow you down the hall and into the kitchen over the audio speakers.




Lighting Control

Lighting set by schedule, time of day.



Security

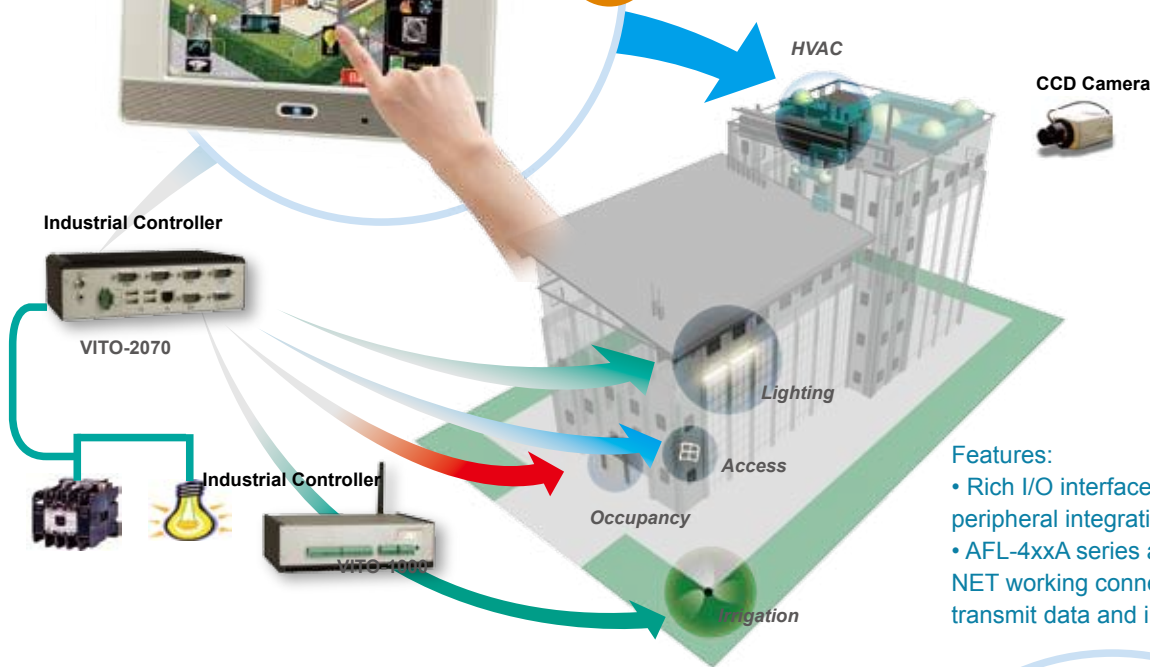
- Control the lighting, in the event of alarm or fire happens
- View and record surveillance video



Energy Management

- Unused lights turn off when leaving the home.
- Settings restore automatically when returning home, saving energy.

B Building Automation



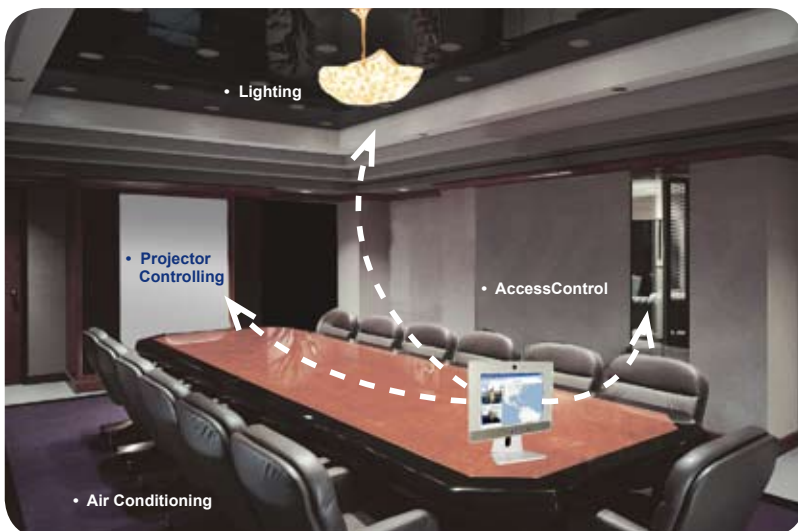
Features:

- Rich I/O interface are reserved for easy peripheral integration in any location.
- AFL-4xxA series are ensured uninterrupted NET working connection in the building, specially transmit data and information in real time.

C Conferencing

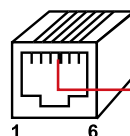
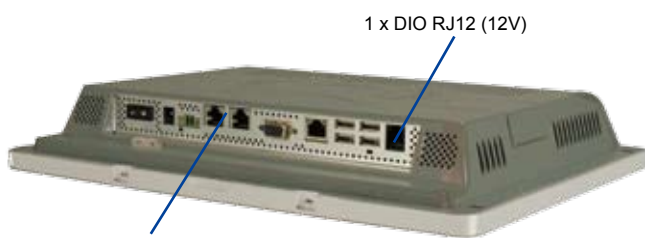
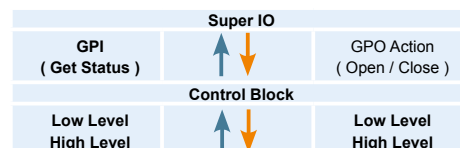
Features:

- Integrated video and audio hardware ready and wireless connection easy to do video conferencing communications.



- Equipped with a digital I/O RJ-12 with 12V power to remotely control the device on and off.

• RJ-12 Digital IO Control Diagram



Pin	Assignment
1	Ground
2	CASH_1 (Digital Out Programmable)
3	Digital IN
4	+12 V
5	NC
6	Ground

1 x RJ45 for RS-232
1 x RJ45 for RS-232/422/485

AFL-408A-ATOM

AFL-408B-ATOM

AFL-W410A-ATOM

8.4" SVGA Fanless In-Wall Panel PC

8.0" SVGA Fanless In-Wall Panel PC

Wide 10.2" SVGA Fanless In-Wall Panel PC

Features

1. 8" ~ 15" TFT LCD with resistive touch screen.
2. Fanless system with Intel ATOM process N270 1.6GHz CPU
3. Changeable faceplate and sticker skin
4. In-wall mechanism design allows easy to installation in minutes
5. A digital I/O RJ-12 12V port provides extension
6. Build-in CMOS camera with digital microphone and two 1.5W speakers for multimedia applications
7. Enabling easier access to the internet through a HSDPA network (Optional)
8. Built-in bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like head phones, keyboard and mouse
9. VESA-mountable for flexibility in mounting and deployment
10. Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.



Remote Controller for OSD Settings
(LCD On/Off; System Power On/Off; Volume; Brightness)



Specifications

		2009 Q1 Release		2009 Q1 Release	
Model		AFL-408A-ATOM-R10	AFL-408B-ATOM-R10	AFL-W410A-ATOM-R10	
Display	LCD Size	8.4"	8.0"	10.2"	
	Max Resolution	800 * 600	800 * 600	1024 * 600	
	Brightness (cd/m2)	400	300	400	
	Contrast Ratio	400 : 1	400 : 1	400 : 1	
	LCD Color	262K	262K	262K	
	Pixel Pitch (mm)	0.213(H) x 0.213(V)	0.0675(H) x 0.2025(V)	0.2175(H) x 0.2175(V)	
	Viewing Angle (H-V)	120° / 100°	130° / 120°	140° / 110°	
	Backlight MTBF (hrs)	50000	30000	40000	
Motherboard	CPU	Intel Atom process N270 1.6GHz CPU			
	Chipset	Intel 945GSE + ICH7M			
	RAM	Supports one 200-pin 2GB (Maximum) 400MHz or 533MHz DDRII SO-DIMM			
I/O Ports	1 x RJ-45 for RS232 COM Port				
	1 x RJ-45 for RS-232/422/485 COM port				
	1 x RJ-45 for Giga LAN				
	4 x USB 2.0				
	2 x Power Switch (Inside Front Panel & Rear cover)				
	1 x Reset Button				
	1 x RJ12 for Digital Input / Output (12VDC) 1 x Terminal Block for 10~28VDC Input 1 x VGA Port				
Drive Bay	HDD Drive Bay	N/A			
	SSD	CF Typell			
	HSDPA Mobile Solution (Optional)	N/A	N/A	1 x HSDPA Mobile Module (USB Interface)	
Other Features	Watchdog Timer	Software programmable supports 1~255 sec. System reset			
	Audio	AMP 1.5W + 1.5W			
	Extension	Wireless Lan Module (PCIe Mini Card, 802.11 b/g LAN Module)			
		Bluetooth Module (USB Interface V2.0)	N/A		N/A
		Webcam & Mic Function	N/A		N/A
	1 x Remote Controller (LCD On/Off; System Power On/Off; Volume; Brightness)				
	LED Function	1 x Power ON/OFF LED on Front Panel			
Physical	Construction Material	ABS + PC Plastic front frame			
	Mounting	Panel, Wall ,VESA 75mm x 75mm/ 100mm x 100mm			
	Front Panel Color	Black/ White/ Gray			
	Net Weight	0.8Kg	0.8Kg	TBD	
Environment	Dimension (WxHxD) (mm)	263.2 x 221.2 x 54.4	263.2 x 221.2 x 54.4	TBD	
	Operation Temperature (°C)	0°C ~50°C	-10°C ~50°C	0°C ~50°C	
	Storage Temperature (°C)	-20°C ~60°C	-20°C ~60°C	-20°C ~60°C	
	IP Level	IP64	IP64	IP64	
	EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	
	Safety	CB	CB	CB	
Touch Screen	Resistive Type 4-Wire (Touch controller IC is on board)		Resistive Type 4-Wire (Touch controller IC is on board)	Resistive Type 5-Wire (Touch controller IC is on board)	
Power Adapter	P/N: 63000-FSP0361AD101C-RS		P/N: 63000-FSP0361AD101C-RS	P/N: 63000-FSP0361AD101C-RS	
	Power: 36W		Power: 36W	Power: 36W	
	Input: 90VAC~264VAC, 50/60Hz Output: 12VDC		Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	
Power Requirement	12V DC-IN 10 ~ 28V DC-IN	12V DC-IN 10 ~ 28V DC-IN	12V DC-IN 10 ~ 28V DC-IN	12V DC-IN 10 ~ 28V DC-IN	
Power Consumption	25W	25W	25W	28W	

AFL-412A-ATOM

12.1" XGA Fanless In-Wall Panel PC

AFL-415A-ATOM

15" XGA Fanless In-Wall Panel PC

AFL-415AE-ATOM

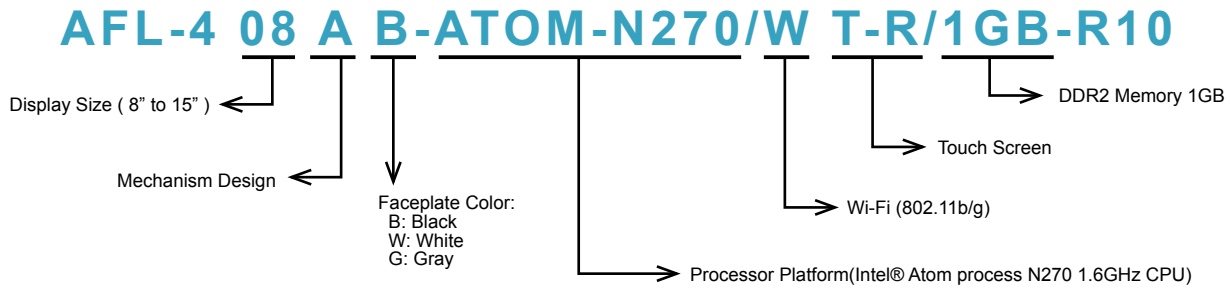
15" XGA Economical Fanless In-Wall Panel PC



Specifications

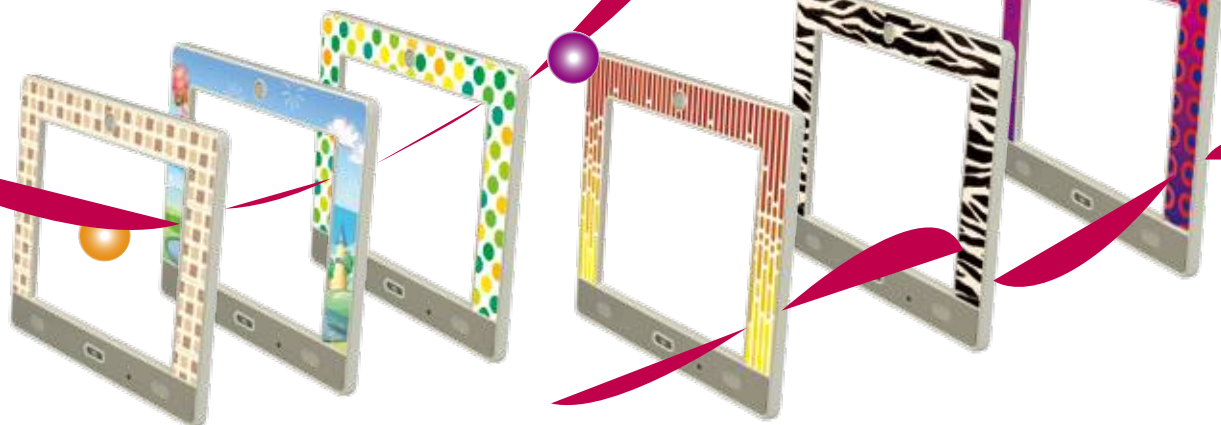
Model	AFL-412A-ATOM-R10	AFL-415A-ATOM-R10	AFL-415AE-ATOM-R10	
Display	LCD Size	12.1"	15"	15"
	Max Resolution	1024 * 768	1024 x 768	1024 x 768
	Brightness (cd/m2)	400	350	250
	Contrast Ratio	500 : 1	700 : 1	600 : 1
	LCD Color	262K	262K	262K
	Pixel Pitch (mm)	0.240(H) x 0.240(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)
	Viewing Angle (H-V)	120°/100°	140°/125°	160°/160°
	Backlight MTBF (hrs)	50000	50000	50000
Motherboard	CPU	Intel Atom process N270 1.6GHz CPU		
	Chipset	Intel 945GSE + ICH7M		
	RAM	Supports one 200-pin 2GB (Maximum) 400MHz or 533MHz DDRII SO-DIMM		
I/O Ports	1 x RJ-45 for RS232 COM Port			
	1 x RJ-45 for RS-232/422/485 COM port			
	1 x RJ-45 for Giga LAN			
	4 x USB 2.0			
	2 x Power Switch (Inside Front Panel & Rear cover)			
	1 x Reset Button			
	1 x RJ12 for Digital Input / Output (12VDC) 1 x Terminal Block for 10~28VDC Input 1 x VGA Port			
Drive Bay	HDD Drive Bay	1 x 2.5" SATA HDD bay or Option HSDPA Module		
	SSD	CF Typell		
	HSDPA Mobile Solution (Optional)	1 x HSDPA Mobile Module (USB Interface)		
Other Features	Watchdog Timer	Software programmable supports 1~255 sec. System reset		
	Audio	AMP 1.5W + 1.5W		
	Extension	1 x Wireless Lan Module (PCIe Mini Card, 802.11 b/g LAN Module)		
		1 x Bluetooth Module (USB Interface V2.0)		
	LED Function	1 x Webcam & Mic Function 1 x Power ON/OFF LED on Front Panel		
Physical	Construction Material	ABS + PC Plastic front frame		
	Mounting	Panel, Wall, VESA 75mm x 75mm / 100mm x 100mm		
	Front Panel Color	Black/ White/ Gray		
	Net Weight	1.8Kg	TBD	TBD
Environment	Dimension (WxHxD) (mm)	339 x 276 x 51.6	TBD	TBD
	Operation Temperature (°C)	0°C~40°C with HDD -10°C~50°C with CF Card or SATA interface 2.5"SSD HDD		
	Storage Temperature (°C)	-20°C ~60°C		
	IP Level	IP64		
Safety	EMC	CE, FCC, CCC		
	Safety	CB		
Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board)			
Power Adapter	P/N: 63000-FSP0481AD101C-RS	P/N: 63000-FSP0601AD101C-746RS		
	Power: 48W	Power: 60W		
	Input: 90VAC~264VAC, 50/60Hz	Input: 90VAC~264VAC, 50/60Hz		
Power Requirement	Output: 12VDC	Output: 12VDC		
	12V DC-IN	12V DC-IN		
	10 ~ 28V DC-IN	10 ~ 28V DC-IN		
Power Consumption	32W	49W	49W	

AFL-4xxA In-wall PPC Product Line Naming Rule



Ordering Information

Model	Description
8"	AFL-408BB-ATOM-N270/WT-R/1GB-R10 8.0" 300 cd/m2, 800x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Black color, R10, RoHS
	AFL-408BW-ATOM-N270/WT-R/1GB-R10 8.0" 300 cd/m2, 800x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, White Color, R10, RoHS
	AFL-408BG-ATOM-N270/WT-R/1GB-R10 8.0" 300 cd/m2, 800x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Gray Color, R10, RoHS
8.4"	AFL-408AB-ATOM-N270/WT-R/1GB-R10 8.4" 400 cd/m2, 800x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R10, RoHS
	AFL-408AW-ATOM-N270/WT-R/1GB-R10 8.4" 400 cd/m2, 800x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White Color, R10, RoHS
	AFL-408AG-ATOM-N270/WT-R/1GB-R10 8.4" 400 cd/m2, 800x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray Color, R10, RoHS
10.2"	AFL-W410AB-ATOM-N270/WT-R/1GB-R10 10.2" 400 cd/m2, 1024x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Black color, R10, RoHS
	AFL-W410AW-ATOM-N270/WT-R/1GB-R10 10.2" 400 cd/m2, 1024x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, White Color, R10, RoHS
	AFL-W410AG-ATOM-N270/WT-R/1GB-R10 10.2" 400 cd/m2, 1024x600 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Gray Color, R10, RoHS
12.1"	AFL-412AB-ATOM-N270/WT-R/1GB-R10 12.1" 400 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R10, RoHS
	AFL-412AW-ATOM-N270/WT-R/1GB-R10 12.1" 400 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White color, R10, RoHS
	AFL-412AG-ATOM-N270/WT-R/1GB-R10 12.1" 400 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray color, R10, RoHS
15"	AFL-415AB-ATOM-N270/WT-R/1GB-R10 15" 350 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R10, RoHS
	AFL-415AW-ATOM-N270/WT-R/1GB-R10 15" 350 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White color, R10, RoHS
	AFL-415AG-ATOM-N270/WT-R/1GB-R10 15" 350 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray color, R10, RoHS
Typical Brightness 15"	AFL-415AEB-ATOM-N270/WT-R/1GB-R10 15" 250 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R10, RoHS
	AFL-415AEW-ATOM-N270/WT-R/1GB-R10 15" 250 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White color, R10, RoHS
	AFL-415AEG-ATOM-N270/WT-R/1GB-R10 15" 250 cd/m2, 1024x768 fanless In-Wall panel PC with Intel Atom N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray color, R10, RoHS



ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-408A-ATOM	V			V	V	V	V	
AFL-W410A-ATOM	V			V	V	V	V	
AFL-412A-ATOM	V			V	V	V	V	
AFL-415A-ATOM	V			V	V	V	V	

Options

Model	AFL-408A-ATOM	AFL-408B-ATOM	AFL-W410A-ATOM	AFL-412A-ATOM	AFL-415A-ATOM	AFL-415AE-ATOM
Wall mounting kit	AFLWK-12				AFLWK-19	
ARM	ARM-11-RS / ARM-31-RS					
Stand	STAND-A08 / STAND-100-RS / STAND-150-RS		STAND-A12 / STAND-100-RS / STAND-150-RS		STAND-A19, STAND-B19, STAND-210-RS STAND-A19, STAND-B19, STAND-210-RS	
VSTAND	VSTAND-A10			VSTAND-A12	N/A	N/A
9~30VDC to 12VDC converter module	IDD-930160-KIT				N/A	N/A
OS	OS: Win CE 5.0	AFLCF-408-ATOM-CE	AFLCF-408-ATOM-CE	AFLCF-W410-ATOM-CE	AFLCF-412-ATOM-CE	AFLCF-415-ATOM-CE
	OS: Win CE 6.0	AFLCF-408-ATOM-CE060	AFLCF-408-ATOM-CE060	AFLCF-W410-ATOM-CE060	AFLCF-412-ATOM-CE060	AFLCF-415-ATOM-CE060
	OS: Win XPE	AFLCF-408-ATOM-XPE	AFLCF-408-ATOM-XPE	AFLCF-W410-ATOM-XPE	AFLCF-412-ATOM-XPE	AFLCF-415-ATOM-XPE
DC 12V Input UPS	AUPS-A10-R10				AUPS-B10-R10	
DC 9~36V Input UPS	AUPS-A20-R10				AUPS-B20-R10	
Faceplate (Black Color)	AFLFP-408A-B-R10	AFLFP-408B-B-R10	AFLFP-W410A-B-R10	AFLFP-412A-B-R10	AFLFP-415A-B-R10	AFLFP-415AE-B-R10
Faceplate (White Color)	AFLFP-408A-W-R10	AFLFP-408B-W-R10	AFLFP-W410A-W-R10	AFLFP-412A-W-R10	AFLFP-415A-W-R10	AFLFP-415AE-W-R10
Faceplate (Gray Color)	AFLFP-408A-G-R10	AFLFP-408B-G-R10	AFLFP-W410A-G-R10	AFLFP-412A-G-R10	AFLFP-415A-G-R10	AFLFP-415AE-G-R10

Removable Faceplate:

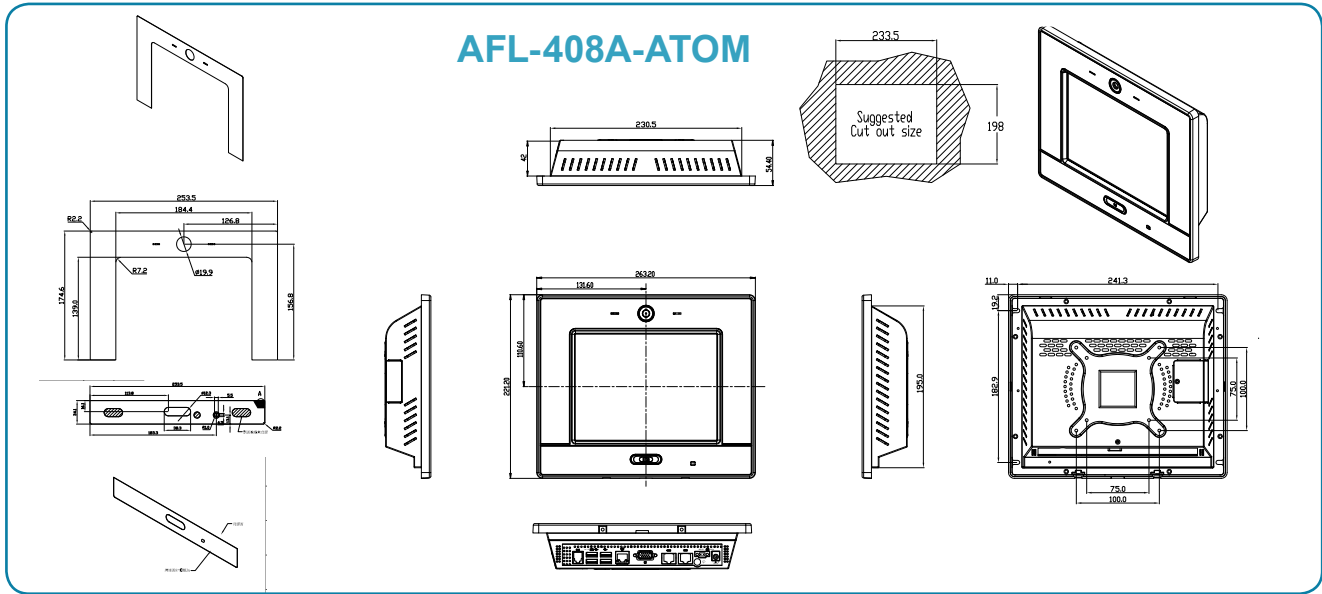


Packing List

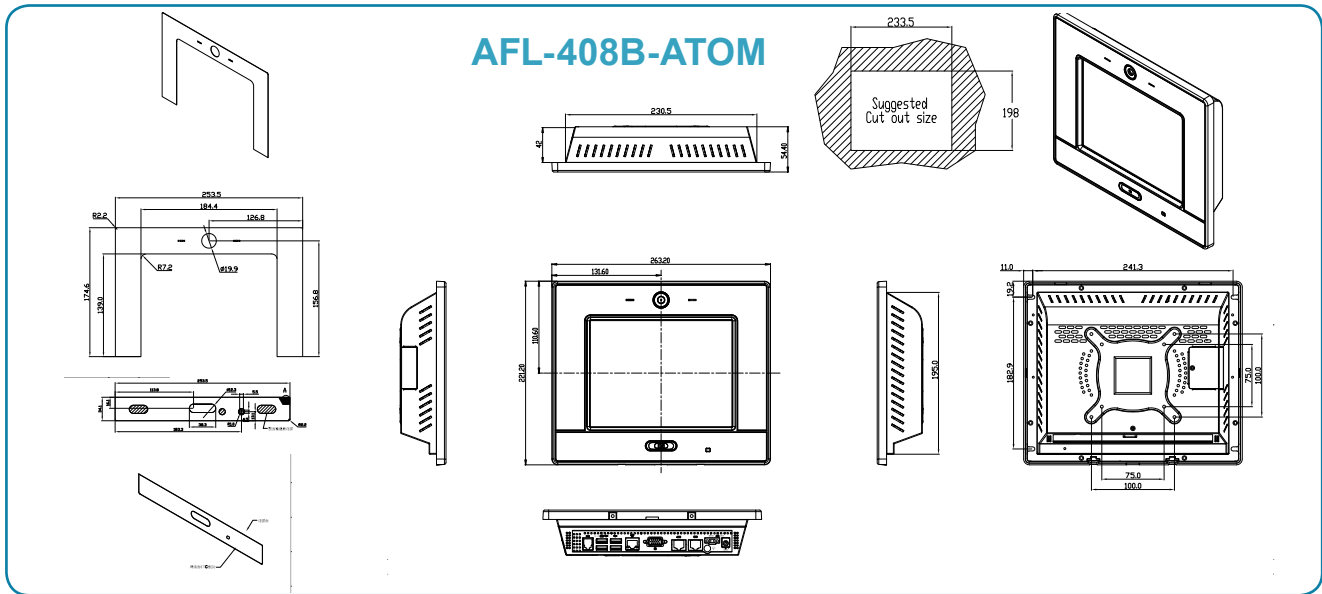
Item	P/N	Q'ty	Specifications
Screws	44233-030081-RS	4	M3; φ8mm
Power Adapter	63000-FSP0481AD101C-RS	1	"90 ~ 264V 12v; 48W"
Power Cable	32000-000002-RS	1	1750mm, European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

Dimensions

AFL-408A-ATOM



AFL-408B-ATOM



AFL-412A-ATOM

