

15" Wide 1366 x 768 AFOLUX Panel PC

AFL-W15A-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-W15A-GM45

Intel® Celeron M 575 2.0GHz Processor
 Intel® Core 2 Duo T7500 2.2GHz Processor
 Intel® Core 2 Duo T9400 2.53GHz Processor

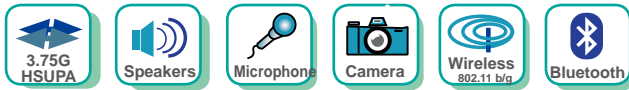
65nm

45nm



16:9 Wide Screen

Deep black glossy Surface!



Membrane Keypad for LCD On/Off, Brightness Down/Up, Volume Down/Up, Lock, Ambient Light Sensor On/Off Control



Ambient Light Sensor

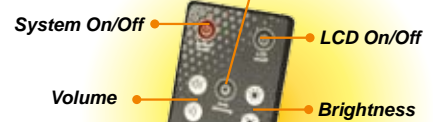


300K Pixel Camera (with Low Light function) and Digital Microphone



HDMI High-Definition Multimedia Interface (For GM45 Systems Only)

Ambient Light Sensor On/Off



Infrared Remote Control

Features

- 15" wide screen all-in-one system with resistive touch panel
- High quality wide screen panel featuring 16:10 aspect ratio, high contrast and fast response time
- Fan-less system integrated with Intel® Atom™ N270 1.6G processor for ultra low voltage
- High performance panel PC Integrated with Intel® GM45 chipset and 45nm mobile Core 2 Duo processor support
- WiFi 802.11b/g/n connection (For Intel® GM45 system)
- HDMI New High-Definition Multimedia Interface (For Intel® GM45 System)
- Built-in two speakers
- Built-in Bluetooth technology
- Built-in HSUPA module for mobile connection (Optional)
- Ambient Light Sensor detects ambient light for automated screen adjustments.
- VESA-mountable for flexibility in mounting and deployment
- Membrane keypad to control LCD backlight, panel brightness, speakers volume, ambient light sensor and lock the keypad functions
- Software system settings utility support
- Support for Windows CE, Windows XP Embedded and LINUX (Optional)
- IP 64 Front Panel Compliant

Ambient Light Sensor

The AFL-W15A series built in the ambient light sensor in front of the panel to automatically detect the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

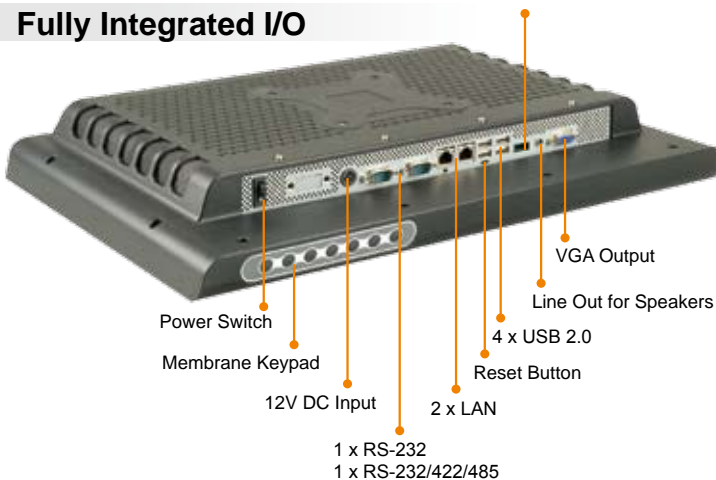
Benefits:

- Avoid eye strained and tired, to provide comfortable viewing
- Power consumption saving
- Extend lamp lifetime



Fully Integrated I/O

1 x HDMI (For GM45 System)



- Power Switch
- Membrane Keypad
- 12V DC Input
- 2 x LAN
- 1 x RS-232
- 1 x RS-232/422/485
- 4 x USB 2.0
- Reset Button
- VGA Output
- Line Out for Speakers

Specifications

Model	AFL-W15A-N270-R10 <i>Fanless</i>	AFL-W15A-GM45-R10
LCD Size	15.6"	
Max Resolution	1366 x 768	
Brightness (cd/m ²)	250	
Contrast Ratio	500 : 1	
LCD Color	16.2M	
Pixel Pitch (mm)	0.252 (W) x 0.252 (H) mm	
Viewing Angle (H-V)	110°/85°	
Backlight MTBF	50000 hrs	
SBC Model	AFLMB2-945GSE-N270-R10	AFLMB2-GM45-R10
CPU	Intel® Atom™ process N270 1.6GHz CPU	Intel® Celeron® M 575 2.0GHz CPU Intel® Core™ 2 Duo T7500 2.2GHz CPU Intel® Core™ 2 Duo T9400 2.53GHz CPU
Chipset	Intel® 945GSE + ICH7M	Intel® GM45 Chipset + ICH9M
RAM	Supports one 400MHz or 533MHz DDRII SO-DIMM (2GB Max.)	Supports two 667MHz or 800MHz DDRII SO-DIMM (4GB max.)
I/O Ports	1 x RS232 COM Port	1 x RS232 COM Port
	1 x RS-232/422/485 COM port	1 x RS-232/422/485 COM port
	2 x RJ-45 for Giga LAN	2 x RJ-45 for Giga LAN
	4 x USB 2.0	4 x USB 2.0
	1 x Power Switch	1 x Power Switch
	1 x Reset Button	1 x Reset Button
	1 x Audio Port	1 x HDMI port
	1 x VGA Port	1 x Audio port
	1 x Power Jack	1 x VGA port 1 x Power Jack
SSD	CF TypeII	
Watchdog Timer	Software programmable supports 1~255 sec. System reset	
Audio	AMP 3W + 3W(internal speaker)	
Camera Module	300K pixel camera (with low light function) and Digital Microphone	
Expansion	1 x Wireless Lan 802.11 b/g Module (internal PCIe mini card interface) 1 x Bluetooth Function (internal USB interface,Bluetooth V2.0)	1 x Wireless Lan 802.11 b/g/n Module (internal PCIe mini card interface) 1 x Bluetooth Function (internal USB interface, Bluetooth V2.0)
Drive Bay	1 x 2.5" SATA HDD bay or 1 x HSUPA Mobile Module (USB Interface)	
Construction Front Panel	ABS + PC Plastic front frame	
Membrane Keypad	LCD On/Off, Brightness Down/Up, Volume Down/Up, Lock, Ambient Light Sensor On/Off (OSD Lock: Lock button+ ALS button)	
Infrared Remote Control	LCD On/Off, Brightness Up/Down, Volume Up/Down, System On/Off, Ambient Light Sensor On/Off	
Ambient Light Sensor	Yes	Yes
Mounting	Panel, Wall, Stand and Arm VESA 100mm x 100mm	
Front Panel Color	Gray 7539U	
Dimension (WxHxD) (mm)	400 x 273 x 62.9	
Operation Temperature (°C)	0°C ~40°C with SATA HDD -10°C ~50°C With CF Card or SATA interface 2.5" SSD HDD	0°C ~50°C
Storage Temperature (°C)	-20°C ~60°C	
N/G Weight	3.3 Kg	
IP Level	Front Frame IP64	
Safety & EMC	CE / FCC / CB / CCC	
Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board)	
Power Adapter	P/N: 63000- FSP0601AD101C746-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP096AHB-RS 96W Power Adapter Input: 90VAC~264VAC,50/60Hz Output: 12VDC
Power Requirement	12VDC	
Power Consumption	50W	82W

Ordering Information

Part Number	Description
AFL-W15A-N270/WT-R/1GB/**(HU01)-R10	15.6" 250cd/m ² 1366x768 panel PC with Intel® Atom™ N270 1.6GHz CPU,1GB DDR2 RAM,802.11 b/g wireless module,touch screen,Bluetooth,300K camera,microphone,RoHS
AFL-W15A-GM45-CM575/WT-R/1GB/**(HU01)-R10	15.6" 250cd/m ² 1366x768 panel PC with Celeron M 2.0GHz CPU,1GB DDR2 RAM,802.11 b/g/n WiFi,touch screen,Bluetooth,300K camera,microphone,RoHS
AFL-W15A-GM45-T7500/WT-R/2GB/**(HU01)-R10	15.6" 250cd/m ² 1366x768 panel PC with Core 2 Duo T7500 2.2GHz CPU,2GB DDR2 RAM,802.11 b/g/n WiFi,touch screen,Bluetooth,300K camera,microphone,RoHS
AFL-W15A-GM45-T9400/WT-R/2GB/**(HU01)-R10	15.6" 250cd/m ² 1366x768 panel PC with Core 2 Duo T9400 2.53GHz CPU,2GB DDR2 RAM,802.11 b/g/n WiFi,touch screen,Bluetooth,300K camera,microphone,RoHS

Note: WiFi 802.11 draft N is upgradable.

Note: Optional 1.3MP Camera with Digital Microphone Module

Options

Model	AFL-W15A-N270	AFL-W15A-GM45
Panel mounting kit	AFLPK-15B	
Wall mounting kit	AFLWK-19	
Rack mounting kit	AFLRK-W15	
ARM	ARM-11-RS / ARM-31-RS	
Stand	STAND-A19 / STAND-B19 / STAND-210-RS	
OS: Win CE 6.0(128 MB CF card)	AFLCF-W15-N270-CE060-R10	N/A
OS: Win XPE(1 GB CF card)	AFLCF-W15-N270-XPE-R10	AFLCF-W15-GM45-XPE-R10
OS: Win LINUX(2 GB CF card)	AFLCF-W15-N270-LNX-R10	AFLCF-W15-GM45-LNX-R10
Hybrid Card Reader	AFLP-W15AMSI-U	
Magnetic Stripe Reader	AFLP-W15AMSR-U	
DC 12V Input UPS	AUPS-B10-R10 (VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAH)	
DC 9~36V Input UPS	AUPS-B20-R10 (VESA 100, DC 9~36V input, 12V output 100W UPS module with 3800mAH)	

Note: Win CE application without digital microphone function

Packing List

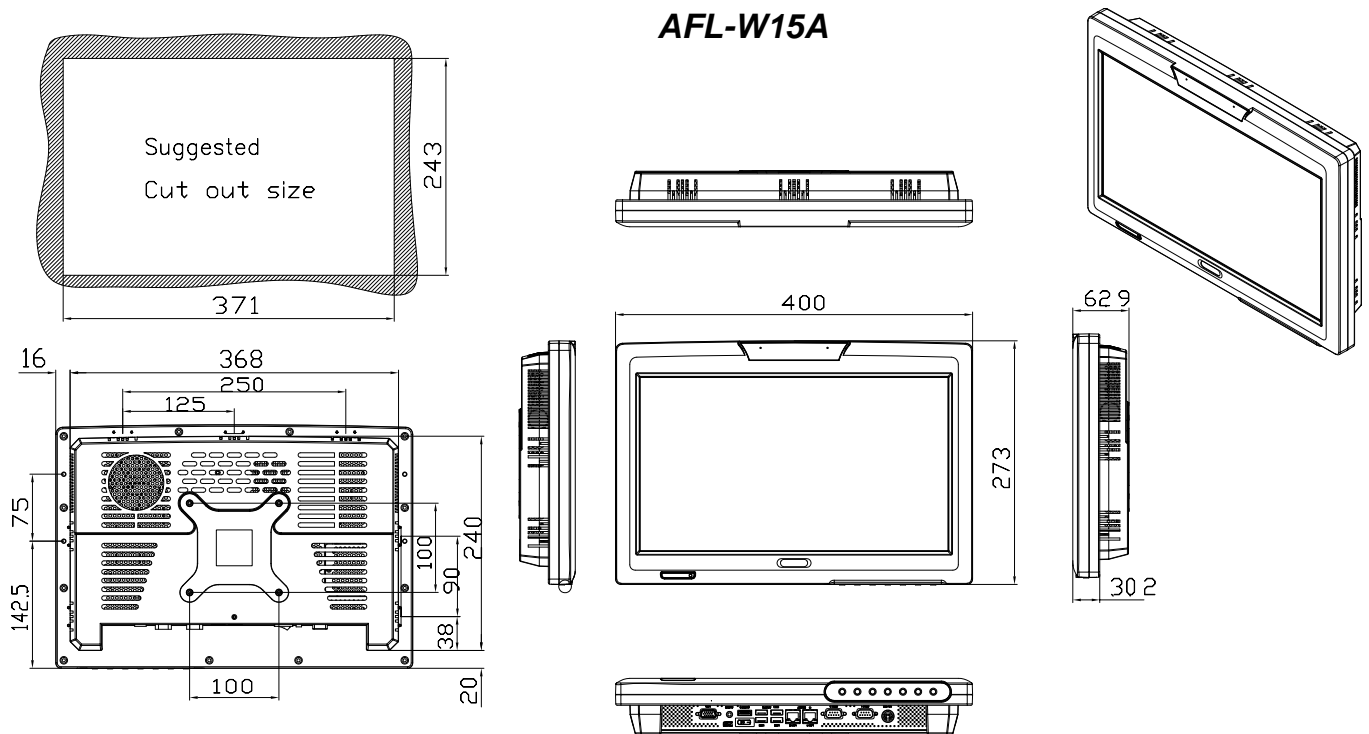
Item	Part Number	Q'ty	Specification
Screws Pack	44013-030041-RS	4	M3;5mm
Power Adpater	63000-FSP096AHB-RS 63000-FSP0601AD101C746-RS	1	90~264V AC; 12V DC; 96W (W15A-GM45) 90~264V AC; 12V DC; 60W (W15A-N270)
Power Cord	32000-000002-RS	1	1750mm; (EU or US, Which type of cord is shipped depends on the country)
Utilities CD	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-W15A-N270	V			V	V	
AFL-W15A-GM45	V	V	V	V	V	



Dimensions (Unit: mm)



Application

High Speed WiFi 802.11 Networking

AFOLUX PPC series is compatible with 802.11b, 802.11g, and 802.11n wireless standards. Operating at 5 GHz or 2.4 GHz frequency at data rates of up to 540 Mbps, you can now connect the PPC to existing high-speed networks that use multiple access points within large or small environments.

Digital Broadcasting Application

- 300k pixel camera with integrated gender and age recognition software to introduce suitable products to customers/users
- Bluetooth connection Bluetooth enabled products to extend the voice applications to attract the people's attention
- Portrait mode configuration displays more content

Wireless Technology Comparison Table

	802.11a	802.11b	802.11g	802.11n
Data Rate (Mbps)	54	11	54	540
Range (Radius Indoor)	35 Meters	38 Meters	38 Meters	70 Meters
Range (Radius Outdoor)	120 Meters	140 Meters	140 Meters	250 Meters
Radio Frequency	5.15 GHz to 5.85 GHz	2.4 GHz to 2.5 GHz	2.4 GHz to 2.5 GHz	2.4 GHz or 5.0 GHz

Up to 802.11N



Wireless connection allows you to change media contents and provide customized information on a real-time basis.