

19" Wide 1440 x 900 AFOLUX Panel PC

**AFL-W19A/B-N270**

Intel® Atom™ N270 1.6G Processor

**AFL-W19A/B-GM45**

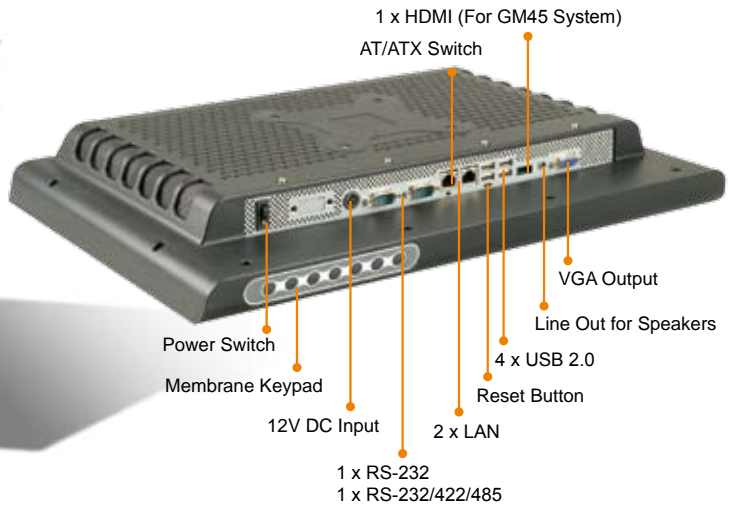
Intel® Core™2 Duo T9400 2.53GHz Processor  
 Intel® Core™2 Duo T7500 2.2GHz Processor  
 Intel® Celeron® M 575 2.0GHz Processor

45nm

65nm

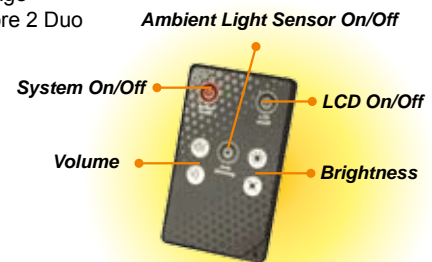


**Fully Integrated I/O**



**Features**

- 19" 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
- CD/DVD-ROM drive bay (For B Type Model)
- 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
- Software system settings utility support
- Support for Windows CE, Windows XP Embedded and LINUX (Optional)
- IP 64 Front Panel Compliant



Infrared Remote Control  
(For AFL-W19A Series Only)



Slim type optical disk driver



Membrane Keypad for System Function Settings



Ambient Light Sensor (Only for AFL-W19A Series)



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



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



Two USB Ports on Side of AFL-W19B-GM45

## Specifications

Model	AFL-W19A-N270-R10 <i>Fanless</i>	AFL-W19A-GM45-R10	AFL-W19B-N270-R10 <i>Fanless</i>	AFL-W19B-GM45-R10
LCD Size	19"			
Max Resolution	1440 x 900			
Brightness (cd/m <sup>2</sup> )	300			
Contrast Ratio	850 : 1			
LCD Color	16.2M			
Pixel Pitch (mm)	0.285(H) x 0.285(V)			
Viewing Angle (H-V)	160°/160°			
Backlight MTBF	50000 hrs			
SBC Model	AFLMB2-945GSE-N270-R10	AFLMB2-GM45-R10	AFLMB2-945GSE-N270-R10	AFLMB2-GM45-R10
CPU	Intel® Atom™ process N270 1.6GHz CPU	Intel® Core 2 Duo T7500 2.2GHz CPU (max.)	Intel® Atom™ process N270 1.6GHz CPU	Intel® Core 2 Duo T7500 2.2GHz CPU (max.)
Chipset	Intel® 945GSE + ICH7M	Intel® GM45 Chipset + ICH9M	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.)	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 RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port 1 x VGA Port 1 x Power Jack	1 x RS232 COM Port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button <b>1 x HDMI port</b> 1 x Audio port 1 x VGA port 1 x Power Jack	1 x RS232 COM Port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port 1 x VGA Port 1 x Power Jack	1 x RS232 COM Port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN <b>6 x USB 2.0 (two on the side)</b> 1 x Power Switch 1 x Reset Button <b>1 x HDMI port</b> 1 x Audio port 1 x VGA port 1 x Power Jack
SSD	CF Typell			
Watchdog Timer	Software programmable supports 1~255 sec. System reset			
Audio	AMP 1.5W + 1.5W (internal speaker)		AMP 3W + AMP 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)	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		1 x 2.5" SATA HDD bay, <b>1 x slim type ODD bay</b>	
Optional HSUPA Module (support GSM 850, EGSM 900, DCS 1800 & 1900)	1 x HSUPA Mobile Module (USB Interface) (Optional)			
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		LCD On/Off, Brightness Down/Up, Volume Down/Up	
Ambient Light Sensor	Yes		N/A	
Infrared Remote Control	LCD On/Off, Brightness Up/Down, Volume Up/Down, System On/Off, Ambient Light Sensor On/Off		N/A	
Mounting	Panel, Wall, Stand and Arm VESA 100mm x 100mm			
Front Panel Color	Black C			
Dimension (WxHxD) (mm)	475 x 259 x 65		475 x 259 x 84	
Operation Temperature (°C)	0°C ~40°C With HDD -10°C ~50°C With CF Card or SATA interface 2.5" SSD HDD	0°C ~40°C With HDD 0°C ~45°C With CF Card or SATA interface 2.5" SSD HDD	0°C ~40°C With HDD -10°C ~50°C With CF Card or SATA interface 2.5" SSD HDD	0°C ~40°C With HDD 0°C ~45°C With CF Card or SATA interface 2.5" SSD HDD
Storage Temperature (°C)	-20°C ~60°C			
N/G Weight	5.8 Kg		6.2 Kg	
IP Level	Frant 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-FSP0841ADC11119-RS 84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP150AHA312-RS 150W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP0841ADC11119-RS 84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP150AHA312-RS 150W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC			
Power Consumption	55W	88W	61W	95W

## CDRW-DVD Combo Drive Spec



The drive is able to write CD-R/RW discs and also can perform as a regular DVD-ROM drive.

Drive Type	Internal Slim CD-RW/DVD Combo Drive	
Data Transfer Rate	Write: CD-R: 24X CD-RW: 24X	Read: DVD-ROM: 8X CD-ROM: 24X
Interface	SATA	
Buffer Memory	2MB	

Note: WiFi 802.11 draft N is upgradable.  
Note: Optional 1.3MP Camera with Digital Microphone Module

