

# AFL-15i-HM55/AFL-17i-HM55/AFL-19i-HM55

15"~19" AFOLUX PPC features Intel® Core™ i7/i5/i3 mobile processor with Intel® HM55 chipset

## Key Features

- 15"~19" multi-functional panel PC with touchscreen
- Powered by high performance Intel® mobile Core™ i7/ i5/ i3 and Celeron® processor with Intel® HM55 chipset
- System memory supports DDR3 SDRAM SO-DIMM up to 8 GB
- HDMI interface provides second display with vivid image quality
- 802.11 b/g/n high speed wireless
- Bluetooth V2.1+EDR
- Dual gigabit Ethernet
- Versatile mounting solution: panel/wall/rack/stand mounting
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery



Intel® i3/i5/i7  
with DDR3



## High-end Audio and Video Performance



### Performance Leadership

- Arrandale on 32nm Processor
- Introduces DDR3 Support (800/1066)
- Enhanced Graphics Engine (Gen 5.7)

### Increased Integration

- Full HD HW Acceleration
- Dedicated High Definition Display Interface (HDMI)



### Dual Channel DDR3 Support up to 8 GB



Information



Digital Signage



KIOSK



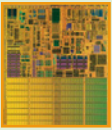
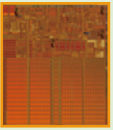
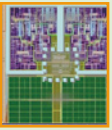
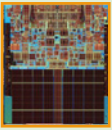
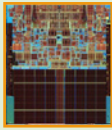
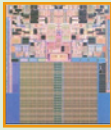
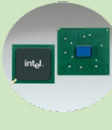
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## AFOLUX PPC Mobile Chipset Transition

The AFOLUX PPC *i* series features 2010 new Intel® Core™ processor with HM55 chipset. Advanced technologies like Hyper-Threading Technology and an integrated graphics core increase in graphics core effectiveness providing outstanding audio/video and processing performance.

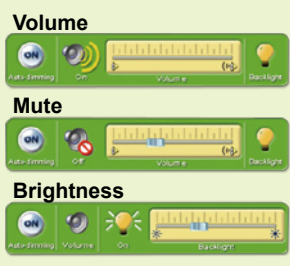
|                                                  | 2008                                                             | 2009                                                                                                                | 2010                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Platform                                         | Merom in Santa Rosa (GME965)                                     | Penryn in Montevina (GM45)                                                                                          | Arrandale in Calpella (HM55)                                                                      |
| CPU                                              | Intel® Core™ 2 Duo<br>Intel® Core™ 2 Duo LV<br>Intel® Celeron® M | Intel® Core™ 2 Duo<br>Intel® Core™ 2 Duo LV<br>Intel® Core™ 2 Duo ULV<br>Intel® Celeron® M<br>Intel® Celeron® M ULV | Socket G1 for Intel® mobile Core™ i7/ i5/ i3 and Celeron® processor                               |
| Chipset                                          | ICH8M-E                                                          | ICH9M                                                                                                               | HM55                                                                                              |
| FSB                                              | 667/800 MHz                                                      | 1066/800/667 MHz                                                                                                    | N/A                                                                                               |
| TDP                                              | 35 W                                                             | 17.5 W~47 W (CPU + GM45/GS45)                                                                                       | 15~37W                                                                                            |
| Supported Memory                                 | DDR2 667/800 (system max. 4 GB)                                  | DDR2 667/800 (system max. 4 GB)                                                                                     | Two 204-pin 4 GB (max.) 800/1066 MHz dual-channel DDR3 SDRAM SO-DIMM supported (System max. 8 GB) |
| Graphics Cores                                   | Gen 4.0                                                          | Gen 5.5 with 10 Execution Units<br>DirectX10, Open GL 2.0                                                           | Gen 5.7 with 12 Execution Units<br>DirectX10, Open GL 2.1                                         |
| Second Display Interface                         | VGA                                                              | VGA, HDMI                                                                                                           | VGA, HDMI                                                                                         |
| Intel® Active Management Technology (Intel™ AMT) | 2.5                                                              | 4                                                                                                                   | No                                                                                                |

# New Intel® Core™ i Solution

| Generation   | Pentium® M                                                                        |                                                                                   | Core™ Duo / Solo                                                                  |                                                                                   | Core™2 Duo                                                                         |                                                                                     | Core i  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Process      | 130 nm                                                                            | 90 nm                                                                             | 65 nm                                                                             |                                                                                   | 45 nm                                                                              |                                                                                     | 32 nm                                                                                      |
| FSB          | 400 MHz                                                                           | 533 MHz / 400 MHz                                                                 | 677 MHz / 533 MHz                                                                 |                                                                                   | 800 MHz / 667 MHz                                                                  | 1066 MHz / 800 MHz                                                                  | N/A                                                                                        |
| Architecture | <b>Banias</b>                                                                     | <b>Dothan</b>                                                                     | <b>Yonah</b>                                                                      | <b>Napa Refresh</b>                                                               | <b>Santa Rosa</b>                                                                  | <b>Penryn</b>                                                                       | <b>Arrandale</b>                                                                           |
|              |  |  |  |  |  |  |         |
|              | <b>Socket 479</b>                                                                 | <b>Socket 479</b>                                                                 | <b>Socket M</b>                                                                   | <b>Socket M</b>                                                                   | <b>Socket P</b>                                                                    | <b>Socket P</b>                                                                     | <b>Socket G1</b>                                                                           |
| TDP          | 24.5 W                                                                            | 21 W                                                                              | 31 W                                                                              | 34 W                                                                              | 35 W                                                                               | 35 W                                                                                | 37W                                                                                        |
| Platform     |  |  |  |                                                                                   |  |  |         |
|              | <b>852GM / 855GM</b>                                                              | <b>915GME</b>                                                                     | <b>945GME</b>                                                                     |                                                                                   | <b>GME965</b>                                                                      | <b>GM45</b>                                                                         | <b>HM55</b>                                                                                |

## Software OSD Utility

IEI patented system software settings utility allows users to adjust system settings from software under Windows environment instead of adjustment from the membrane keypad below the front panel.



## Selectable AT/ATX Power



### Remote Control AT Mode

The power is controlled by a central power unit rather than a power switch. The system turns on automatically when the power is connected.

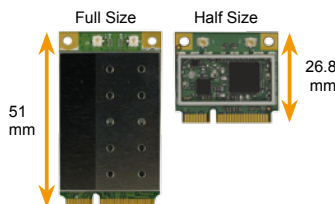
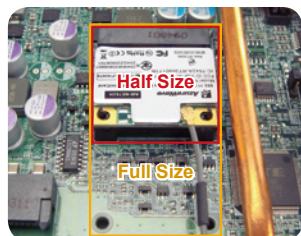
- Easy to turn on/off with wall/panel mounting
- Automatic start when power connected

### Remote Control ATX Mode

With the ATX mode selected, the system series panel PC goes in a standby mode when it is turned off. The panel PC can be easily turned on via network or a power switch in standby mode.

- Power management
- Remote control via network advantage

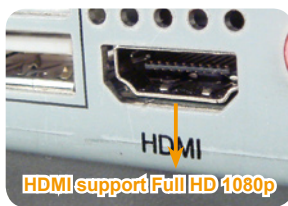
## Comprehensive Wireless Network



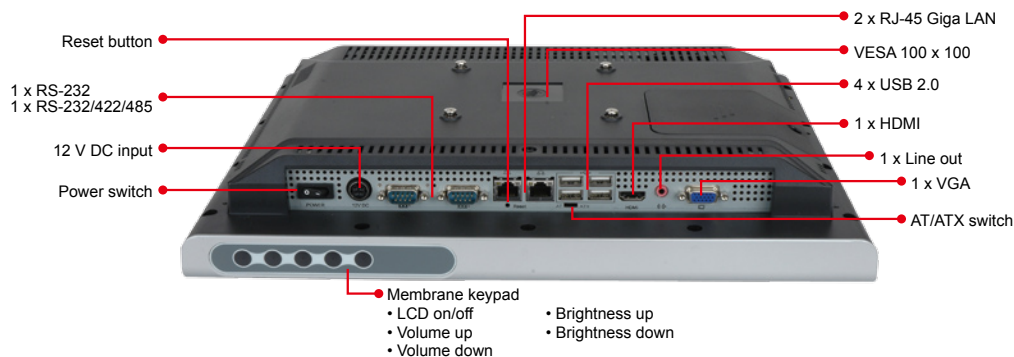
The wireless mini card is complied with IEEE 802.11b/g/n standards and operates on 2.4 GHz and 5 GHz frequencies. It can be used to provide up to 300 Mbps for IEEE 802.11n draft 2.0, or 54 Mbps for IEEE 802.11g, or 11 Mbps for IEEE 802.11b to connect your wireless LAN.

## HDMI Port Delivers the High Image Quality on the Second Display

High-Definition Multimedia Interface (HDMI) which is a compact audio/video interface for transmitting uncompressed digital data delivering high-definition video support 1080p resolution which equates to 1,920x1,080 pixels, it also supports industry standard EIA-861B video modes including 480p, 720p, 1080i, and 1080p



## I/O Interface



### Easily Accessible HDD and CF Card



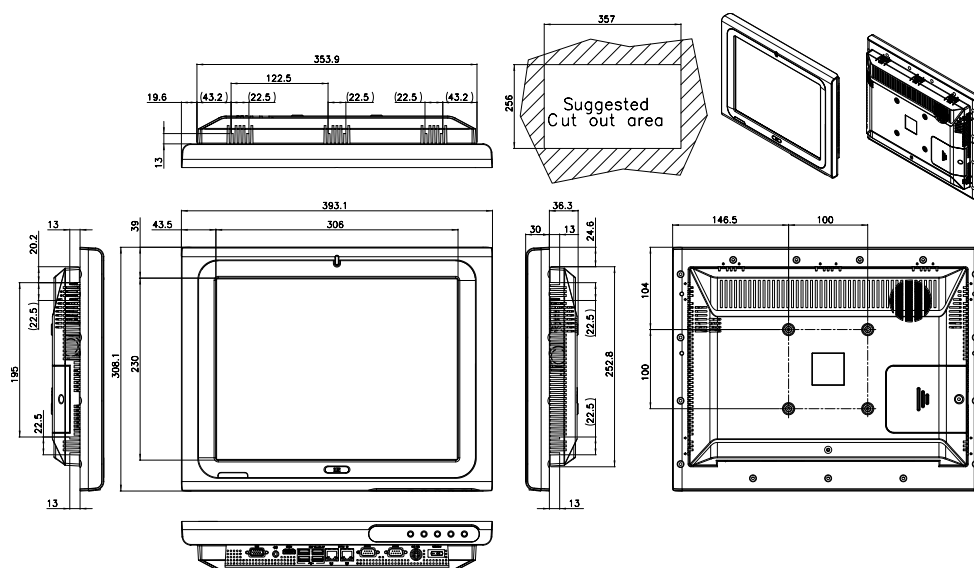
## Specifications

| Model                                                             | AFL-15i(E)-HM55                                                                                                                                                                                                | AFL-17i-HM55          | AFL-19i-HM55        |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|
| LCD/Touch Specifications                                          |                                                                                                                                                                                                                |                       |                     |
| LCD Size                                                          | 15"                                                                                                                                                                                                            | 17"                   | 19"                 |
| Max. Resolution                                                   | 1024 x 768                                                                                                                                                                                                     | 1280 x 1024           | 1280 x 1024         |
| Brightness (cd/m²)                                                | 350 or 250                                                                                                                                                                                                     | 350                   | 450                 |
| Contrast Ratio                                                    | 700:1 or 450:1                                                                                                                                                                                                 | 800 : 1               | 1000:1              |
| LCD Color                                                         | 262K or 16.7 M                                                                                                                                                                                                 | 16.7 M                | 16.7 M              |
| Pixel Pitch (mm)                                                  | 0.297(H) x 0.297(V)                                                                                                                                                                                            | 0.264 (H) x 0.264 (V) | 0.294(H) x 0.294(V) |
| Viewing Angle (H-V)                                               | 140°/125° or 120°/100°                                                                                                                                                                                         | 160° / 160°           | 178° / 178°         |
| Backlight MTBF                                                    | 50000 hrs or 40000 hrs                                                                                                                                                                                         | 50000 hrs             | 50000 hrs           |
| Touch Screen                                                      | Resistive Type 5-wire (Touch controller IC is on board) or capacitive type touch screen without HDD bay                                                                                                        |                       |                     |
| System                                                            |                                                                                                                                                                                                                |                       |                     |
| SBC Model                                                         | AFLMB2-HM55-R10                                                                                                                                                                                                |                       |                     |
| CPU                                                               | Socket G (PGA989) Intel® Arrondale processor                                                                                                                                                                   |                       |                     |
| Chipset                                                           | Intel® HM55                                                                                                                                                                                                    |                       |                     |
| RAM                                                               | Two 204-pin 800/1066 DDR3 dual-channel SO-DIMMs supported (system max. 8 GB)                                                                                                                                   |                       |                     |
| I/O Ports                                                         | 1 x RS-232 COM Port<br>1 x RS-232/422/485 COM Port<br>2 x RJ-45 for Giga LAN<br>4 x USB 2.0<br>1 x Power Switch<br>1 x Reset Button<br>1 x Audio Port (Line-Out)<br>1 x VGA<br>1 x Power Jack<br>1 x HDMI Port |                       |                     |
| SSD                                                               | SATA SSD                                                                                                                                                                                                       |                       |                     |
| Watchdog Timer                                                    | Software programmable supports 1~255 sec. system reset                                                                                                                                                         |                       |                     |
| Audio                                                             | AMP 3 W + 3 W (internal speaker)                                                                                                                                                                               |                       |                     |
| Expansion                                                         | 1 x wireless Lan 802.11 b / g / n module<br>(internal PCIe mini card interface)<br>1 x Bluetooth function<br>(internal USB interface, Bluetooth V2.1+EDR)                                                      |                       |                     |
| Drive Bay                                                         | 1 x 2.5" SATA HDD bay                                                                                                                                                                                          |                       |                     |
| Membrane Keypad                                                   | LCD on/off, brightness up/down, volume high/low (5 keys)                                                                                                                                                       |                       |                     |
| LED Function                                                      | 1 x Power on/off LED on front panel                                                                                                                                                                            |                       |                     |
| Wireless                                                          |                                                                                                                                                                                                                |                       |                     |
| Wireless                                                          | 1 x Wireless LAN 802.11 b/g/n module (internal PCIe mini card interface)                                                                                                                                       |                       |                     |
| Optional HSPA Module (support GSM 850, EGSM 900, DCS 1800 & 1900) | 1 x HSPA mobile module (USB interface)                                                                                                                                                                         |                       |                     |
| Bluetooth                                                         | Bluetooth V2.1+EDR                                                                                                                                                                                             |                       |                     |
| Physical                                                          |                                                                                                                                                                                                                |                       |                     |
| Construction Front Panel                                          | ABS + PC plastic front frame                                                                                                                                                                                   |                       |                     |
| Mounting                                                          | Panel, Wall, Rack, Stand and Arm VESA 100 mm x 100 mm                                                                                                                                                          |                       |                     |
| Front Panel Color                                                 | Sliver (877U) & Gray (ABSA2037)                                                                                                                                                                                |                       |                     |
| Dimensions (WxHxD) (mm)                                           | 394 x 309 x 75                                                                                                                                                                                                 | 428 x 350 x 76        | 470 x 383 x 79      |
| Environment                                                       |                                                                                                                                                                                                                |                       |                     |
| Operation Temperature (°C)                                        | 0°C ~ 50°C                                                                                                                                                                                                     |                       |                     |
| Storage Temperature (°C)                                          | -20°C ~ 60°C                                                                                                                                                                                                   |                       |                     |
| Weight (N/G)                                                      | 5.8 Kg                                                                                                                                                                                                         | 6.0 Kg                | 6.2 Kg              |
| IP Level                                                          | Front frame IP64                                                                                                                                                                                               |                       |                     |
| Safety & EMC                                                      | CE / FCC / CB / CCC                                                                                                                                                                                            |                       |                     |
| Power                                                             |                                                                                                                                                                                                                |                       |                     |
| Power Adapter                                                     | P/N: 63000-FSP096AHB-RS<br>96 W Power adapter<br>Input: 90 VAC~264 VAC, 50/60 Hz<br>Output: 12 VDC                                                                                                             |                       |                     |
| Power Requirement                                                 | 12 VDC                                                                                                                                                                                                         |                       |                     |
| Power Consumption                                                 | 80 W                                                                                                                                                                                                           | 85 W                  | 87 W                |

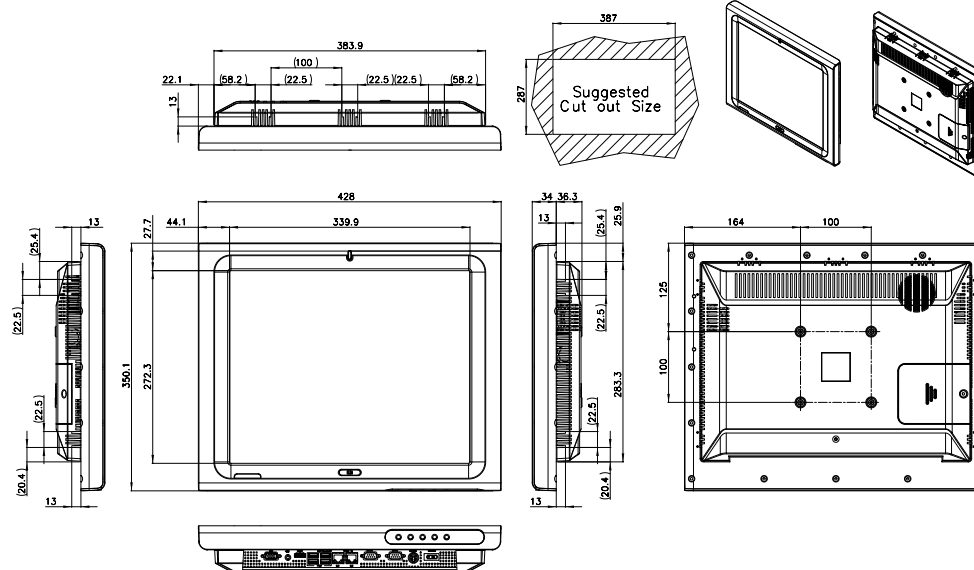


# Dimensions (Unit: mm)

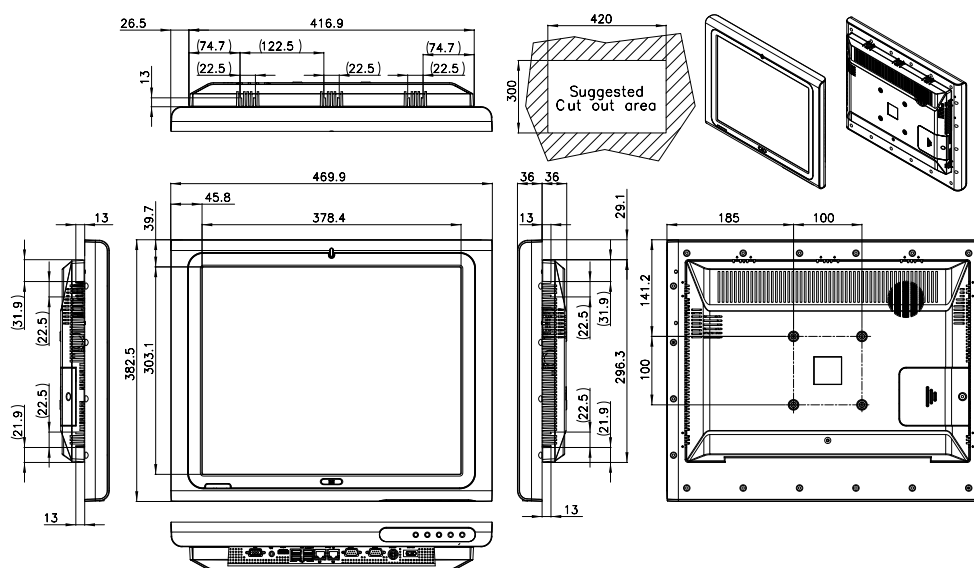
## AFL-15i-HM55



## AFL-17i-HM55



## AFL-19i-HM55



## Ordering Information

|                                               |                             |                                                                                                                                                            |
|-----------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15" Regular Luminance (250cd/m <sup>2</sup> ) | AFL-15iE-HM55i3-33/R/2G-R10 | 15" 250cd/m <sup>2</sup> XGA panel PC with Intel® Core™ i3-330M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS       |
|                                               | AFL-15iE-HM55i5-52/R/2G-R10 | 15" 250cd/m <sup>2</sup> XGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS        |
|                                               | AFL-15iE-HM55i7-62/R/2G-R10 | 15" 250cd/m <sup>2</sup> XGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS       |
|                                               | AFL-15iE-HM55-P45/R/1G-R10  | 15" 250cd/m <sup>2</sup> XGA panel PC with Intel® Celeron P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS       |
| 15" High Luminance (350cd/m <sup>2</sup> )    | AFL-15i-HM55i3-33/R/2G-R10  | 15" 350cd/m <sup>2</sup> XGA panel PC with Intel® Core™ i3-330M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS       |
|                                               | AFL-15i-HM55i5-52/R/2G-R10  | 15" 350cd/m <sup>2</sup> XGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS        |
|                                               | AFL-15i-HM55i7-62/R/2G-R10  | 15" 350cd/m <sup>2</sup> XGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS       |
|                                               | AFL-15i-HM55P-P45/R/1G-R10  | 15" 350cd/m <sup>2</sup> XGA panel PC with Intel® Celeron P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, RoHS       |
| 17" High Luminance (350cd/m <sup>2</sup> )    | AFL-17i-HM55i3-33/R/2G-R10  | 17" 350cd/m <sup>2</sup> SXGA panel PC with Intel® Core™ i3-330M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS |
|                                               | AFL-17i-HM55i5-52/R/2G-R10  | 17" 350cd/m <sup>2</sup> SXGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS  |
|                                               | AFL-17i-HM55i7-62/R/2G-R10  | 17" 350cd/m <sup>2</sup> SXGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS |
|                                               | AFL-17i-HM55-P45/R/1G-R10   | 17" 350cd/m <sup>2</sup> SXGA panel PC with Intel® Celeron P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS |
| 19" High Luminance (450cd/m <sup>2</sup> )    | AFL-19i-HM55i3-33/R/2G-R10  | 19" 450cd/m <sup>2</sup> SXGA panel PC with Intel® Core™ i3-330M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS |
|                                               | AFL-19i-HM55i5-52/R/2G-R10  | 19" 450cd/m <sup>2</sup> SXGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS  |
|                                               | AFL-19i-HM55i7-62/R/2G-R10  | 19" 450cd/m <sup>2</sup> SXGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS |
|                                               | AFL-19i-HM55-P45/R/1G-R10   | 19" 450cd/m <sup>2</sup> SXGA panel PC with Intel® Celeron P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, bluetooth, R10, RoHS |

## Options

| Model                  | AFL-15i-HM55                                                                         | AFL-17i-HM55                                         | AFL-19i-HM55                                         |
|------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Panel Mounting Kit     | AFLPK-19B                                                                            |                                                      |                                                      |
| Wall Mounting Kit      | AFLWK-19 / AFLWK-19B                                                                 |                                                      |                                                      |
| Rack Mounting Kit      | AFLRK-15B                                                                            | AFLRK-17B                                            | N/A                                                  |
| ARM                    | ARM-11-RS, ARM-31-RS                                                                 |                                                      |                                                      |
| Stand                  | STAND-A19, STAND-B19, STAND-C19, STAND-210-R11                                       |                                                      |                                                      |
| OS: Win XPE            | AFLSD-15-HM55-2G-XPE<br>(2 GB SATA SSD module)                                       | AFLSD-17-HM55-2G-XPE<br>(2 GB SATA SSD module)       | AFLSD-19-HM55-2G-XPE<br>(2 GB SATA SSD module)       |
| OS: Win                | AFLSD-15-HM55-4G-WES7E-R10<br>(4 GB SATA SSD module)                                 | AFLSD-17-HM55-4G-WES7E-R10<br>(4 GB SATA SSD module) | AFLSD-19-HM55-4G-WES7E-R10<br>(4 GB SATA SSD module) |
| Hybrid Card Reader     | AFLP-19AMSI-U                                                                        |                                                      |                                                      |
| Magnetic Stripe Reader | AFLP-19AMSR-U                                                                        |                                                      |                                                      |
| DC 12 V Input UPS      | AUPS-B10-R10 (VESA 100, DC 12 V input, 12 V output 100 W UPS module with 3800 mAh)   |                                                      |                                                      |
| DC 9~36 V Input UPS    | AUPS-B20-R10 (VESA 100, DC 9~36 V input, 12 V output 100 W UPS module with 3800 mAh) |                                                      |                                                      |

## Packing List

| Item              | Part Number            | Q'ty | Specifications                          |
|-------------------|------------------------|------|-----------------------------------------|
| Power Cord        | 32000-000002-RS        | 1    | 1750 mm; European Standard              |
| Power Adapter     | 63000-FSP096AHB-RS     | 1    | 90~264 V AC Input; 12 V DC Output; 96 W |
| Utilities CDROM   | 7B000-000087-RS        | 1    |                                         |
| Screw Kit         | 44013-030041-RS        | 1    |                                         |
| Touch Pen         | 43125-0002C0-00-RS     | 1    |                                         |
| Remote Controller | 7Z000-8T00320ICP05G-RS | 1    |                                         |