

# Service Automation All-in-One Panel PC

Your Affordable Luxury Panel PC  
**AFOLUX PPC**

Today, more and more customers are looking for advanced services – e.g. round-the-clock servicing, just-in-time delivery, etc. Service automation enables the exchange of information and communication between administrators and clients through thin, low power consumption with portable designs fit with many circumstance.

Upgrade your service platform with IEI service automation solutions, which have advanced communication functions and solid mechanical characteristic. These solutions help you keep up with your customers, while staying a step ahead of the competition.

## AFOLUX Diverse Options for You

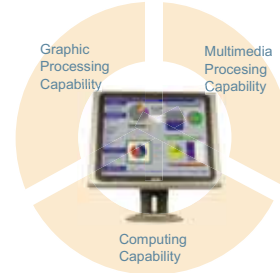
IEI AFOLUX panel PC comes with complete platforms:

CPU	Chipset	Key Attributes	LCD Size											
			5.6"	5.7"	8.4"	10.4"	12.1"	15"	17"		19"			
 	915 GM	Delivering outstanding computing performance and low-power enhancements. Therefore, the Intel platform series is a high stability and high reliable Panel PC.												 <b>Home Automation</b>
 	CX	Designed around VIA CX700M chipset, the AFOLUX panel PC delivers high-end graphics capabilities as well as a low power consumption.												 <b>Factory Automation</b>
	LX	The fanless Panel PC supports the low power AMD Geode™ LX 800 processor. It is a powerful and compact panel PC ideally suited for operator interface applications.												 <b>Digital Signage</b>
	690T	The AM2/690T dual-core processors delivers outstanding multi-tasking performance and advanced multimedia capabilities.												

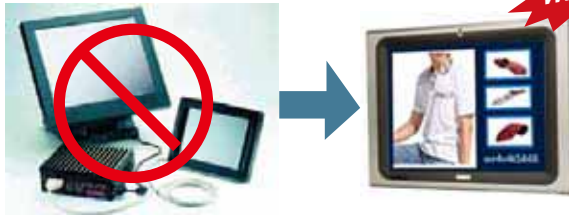
## Explore a Wider World of AFOLUX Panel PC

### Platform Matrix

	Multimedia	Low Power Consumption
High Performance	 AMD AM2/690T    VIA C7@/CX	 Intel® Pentium® M/915GM
Fanless	 VIA Eden@/CX 700M	 AMD Geode™ LX800 Intel® Celeron® M / 915GM



### 1. Multimedia Entertainment Platform



Traditional System      AFOLUX PPC

	Embedded system + monitor	All-in-One Unit
Building cost	High	Low
Maintenance	Complicated	Easy
Appearance	a PC with lots of cables	Simple and Luxury
Space Occupy	High	Low

#### (1) Stylish Design and built-in Speakers

Stylish and compact unit with two built-in 3W speakers and one audio line-out extend voice functions for Kiosks, POS and advertising applications

#### (2) Selectable Power Mode

AT or ATX power selection enables versatile system control and reduces maintenance costs

#### (3) Wireless

Data update and transmission by wireless LAN

#### (4) VESA Mounting Support

VESA mounting design can conveniently mount AFOLUX in any environments

#### (5) Built-in Bluetooth Module

Bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like headphones, printers, barcode readers or game controllers.



Interactive Kiosk



Digital Signage



POS



Gaming

### 2. Industrial Computing Platform



Fanless Design

#### (1) Fanless

Fanless design reduces system noise, ideal for medical applications.

#### (2) IP 64 Compliant Front Panel Protection

The IP 64 front panel ensures the AFL can operate in harsh environments and that the front panel can easily be kept clean with chemical cleanser

#### (3) User-friendly and easily accessible platform

#### (4) Touch Panel Screen

Resistive touch panel allows users to easily operate the system

#### (5) Optional HSDPA 3.5G/GPRS Module

Enabling easier access to the Internet through a WCDMA/GSM network



Medical Image Terminal



Industrial Automation



Network Security



Transportation

# Enhanced Features



A preinstalled bluetooth module communicates with a wide range of electronic products from PDAs, cellphones and printers, to barcode readers.

## Connect More!



Headset for gaming device



Cellular phone control and monitoring of logistics service vehicles



## Best Control Master

- Automatic detection of Bluetooth devices
- High speed USB 2.0 interface
- Direct communication between WLAN device and Bluetooth device through a collaborative coexisting design
- Performance maximization through data prioritization technology
- High connection efficiency supports both page scan and inquiry scan modes



Supporting 3.5G

An optional IEI HSDPA/GPRS module on the AFOLUX all-in-one panel PC enables easier access to the Internet through a WCDMA/GSM network, allowing web browsing, corporate and Internet email, vehicle positioning, remote LAN access, document sharing and collaborative working.

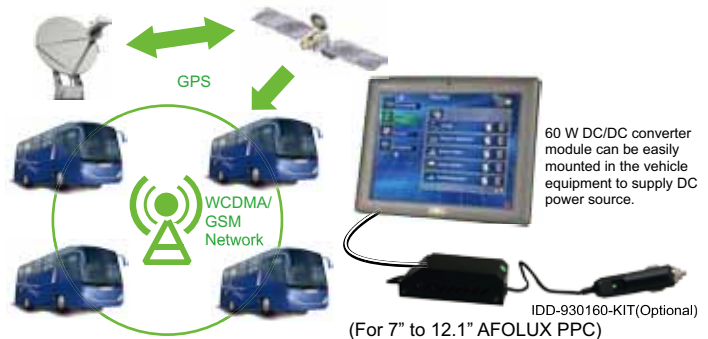
## Connect anytime !



Fleet Management



Railway Information System



## Best Mobile Solution

- Send and receive data in packet transfer mode
- Efficient use of radio bandwidth
- Constant connectivity
- Cost effective
- High speed connection: downlink 7.2Mbps, uplink 384Kbps



The integrated PIFA antenna on the AFOLUX ensures an uninterrupted wireless connection. PIFA type antennas can receive high-quality, uniform signals in any location from all directions without any signal degradation or impedance and are the most efficient antennas on the market today. PIFA enhances transmission and reception through a special cubic structure to ensure optimum wireless performance.

## Connect Reliably !



PIFA antenna inside

## Embedded PIFA Antenna



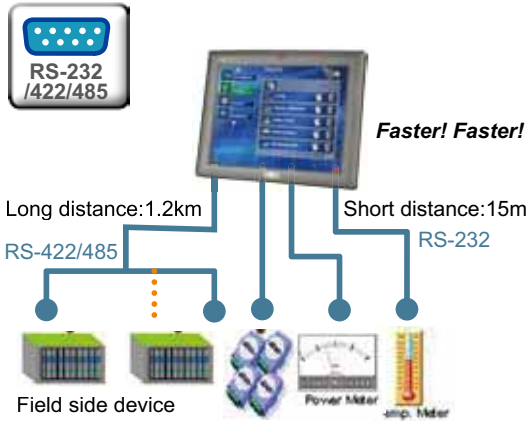
## Home Automation

## 802.11 b/g Compliance for Complete Interoperability

The built-in PIFA antenna for WLAN 802.11b/g-reduces the hazard of network collisions and crashes or virus infections.

# Extended Connectivity

## RS-232/422/485 Fast Transmission



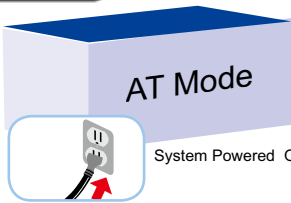
Specifications	RS-232	RS-422	RS-485
Mode of Operation	Single ended	Differential	Differential
Total Number of Drivers and Receivers on One Line (One driver active at a time for RS485 networks)	1 Driver 1 Receiver	1 Driver 10 Receiver	32 Driver 32 Receiver
Maximum Cable Length	50 FT.	4000 FT.	4000 FT.
Maximum Data Rate (40ft. - 4000ft. for RS422/RS485)	20kb/s	10Mb/s-100Kb/s	10Mb/s-100Kb/s
Maximum Driver Output Voltage	+/-25V	-0.25V to +6V	-7V to +12V
Driver Output Signal Level (Loaded Min.)	Loaded +/-5V to +/-15V	+/-2.0V	+/-1.5V
Driver Output Signal Level (Unloaded Max)	Unloaded +/-25V	+/-6V	+/-6V
Driver Load Impedance (Ohms)	3k to 7k	100	54
Max. Driver Current in High Z State	Power On N/A	N/A	+/-100uA
Max. Driver Current in High Z State	Power Off +/-6mA @ +/-2v	+/-100uA	+/-100uA
Slew Rate (Max.)	30V/uS	N/A	N/A
Receiver Input Voltage Range	+/-15V	-10V to +10V	-7V to +12V
Receiver Input Sensitivity	+/-3V	+/-200mV	+/-200mV
Receiver Input Resistance (Ohms), (1 Standard Load for RS485)	3k to 7k	4k min.	>=12k

## Flexible Power Mode



### AT/ATX Mode Selection

IEI AT/ATX power mode flexibility allows you to select the most suitable power mode for your unique application requirements



In AT mode the AFOLUX panel PC automatically starts when the central plug is connected.

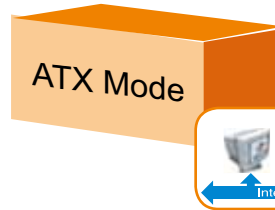
### Easily Power On/Off in mounting situation

System booted by central plug not individual switch, conveniently used in mounting applications which is difficult to power the system by switch.



### Easily boot many systems

Enabling multiple systems through the central power unit.



In ATX mode the AFOLUX panel PC can be individually booted via remote network.

### Power Saving

Standby mode activated, when the system is not used.



### Remote Control

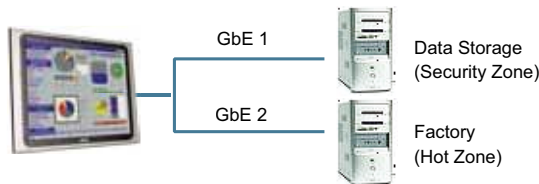
Users can set up each panel PC to be turned on/off at different time via remote network.



## Dual 10/100/Gigabit Ethernet Support



Allocating factory zone and data storage zone to reduce the network collision and crash or virus infection.



## VGA OUT for Dual Display



(For AFOLUX Intel and AMD 690T/AM2 Solutions)



# Value Added Software

## Watch Dog Timer



The AFOLUX panel PC includes a watchdog timer. The watchdog timer allows the system to automatically recover from a system crash. When the CPU stops working correctly, the watchdog timer waits for a preset period of time, and then performs a hardware reset (cold boot) or a Non-Maskable Interrupt (NMI) to bring the system back to a known state.



In most cases there is no user around to reset the computer when things go wrong. That job is performed by the watchdog timer.

### Benefits

- Making your service systems more self-reliant
- Decreasing maintenance cost



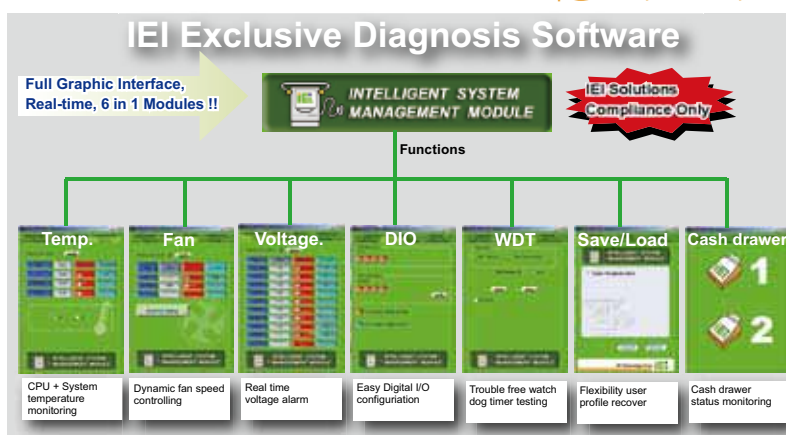
## Intelligent System Management Module (iSMM)

# iSMM

IEI iSMM is a system management module that utilizes sensor chips on the IEI motherboards to track system and CPU temperatures, voltages, cooling fan speed, watchdog timer and digital I/O setup status. These settings can be modified according to setup needs.

### Features

- External and on-chip voltages data feedback
- CPU and system temperature data feedback
- Cooling fan speed data feedback
- Three cooling fan speed modes
- Warning signals by beeper and sound effect
- Watchdog timer test
- Programmable digital I/O
- Save and load different system configurations



### Available Models

Model Name	Test result	Voltage	Fan	Smart Fan	Temp.	DIO	WDT	Alarm
AMD Geode™ LX	v	v	N/A	N/A	N/A	N/A	v	v
VIA CX700M	v	N/A	N/A	N/A	N/A	v	v	N/A
Intel® 915 family	v	v	v	v	v	v	v	v
AMD 690T family	v	v	v	v	v	v	v	v

## Embedded OS Supports

IEI provides optional pre-installed Windows® XP Embedded, Windows® CE 5.0 or Windows® Embedded CE 6.0 turnkey solutions tailored for the AFOLUX series. These turnkey solutions have one CompactFlash® memory card Windows® pre-installed. A Windows® software license is included, and one CD that contains all related SDK (Software Development Kit) information and user manuals.

128 MB

Include:

- Windows® CE OS image with license
- Thin Client turnkey solutions
- SDK

1 GB

Include:

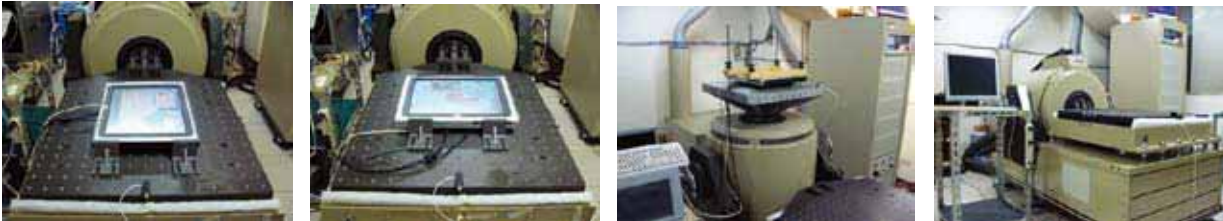
- Windows® XPE OS image with license
- Thin Client turnkey solutions



# Industrial Grade Compliance

## Rugged Design

The AFOLUX panel PC are equipped with a drive kit to increase the resistance of the hard drive to sideshocks and vibrations. The drive kit extends the drive life cycle in environments such as vehicles and marine applications.



## IP 64 Front Panel Compliance

The AFOLUX front panel is IP 64 compliant. IP 64 compliance guarantees the front panel is dustproof and water-proof. The AFOLUX front panel can withstand any industrial environment where dust and drizzle is encountered.



## IEI Quick Mounting Technology

### VESA Mounting Standards

The AFOLUX panel PC series has four mounting holes compliant with the VESA mounting standard (75mm x 75mm/100mm x 100mm) on the rear panel for stand mounting and other mounting methods.

### Stands

#### Easy Stand



#### Comfortable Stand



### POS Stand



**STAND-POS12**  
(For 12.1" AFOLUX POS panel PC)

**STAND-POS15**  
(For 15" AFOLUX POS panel PC)

### Panel Mount Kits

For 15"~19" AFOLUX PPC

For 7"~12.1" AFOLUX PPC



### Wall Mount Kits



# AMD Geode™ LX Platform

**2008Q1  
launch**

**High Brightness**

**High Brightness**

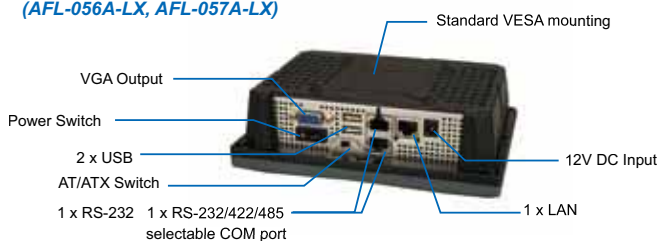


Model	AFL-056A-LX	AFL-057A-LX	AFL-07A-LX-R11	AFL-08AH-LX-R11	AFL-10A-LX	AFL-12A-LX-R11
LCD Size	5.6"	5.7"	7"	8.4"	10.4"	12.1"
Max Resolution	320 * 234	640 * 480	800 * 480	800 * 600	800 * 600	1024 * 768
Brightness (cd/m <sup>2</sup> )	350	400	350	450	400	450
Contrast Ratio	400:1	300:1	400:1	500:1	500:1	700:1
LCD Color	262K	262K	262K	262K	262K	262K
Pixel Pitch (mm)	0.118(H) x 0.362(V)	0.06(H) x 0.18(V)	0.1905(H) x 0.1905(V)	0.213(H) x 0.213(V)	211.2(H) x 158.4(V)	0.240(H) x 0.240(V)
Viewing Angle (H-V)	100/60	140/100	140/110	120/100	120/100	160/160
Backlight MTBF	30000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-LX2-800	AFLMB-LX2-800	AFLMB-LX800	AFLMB-LX800	AFLMB-LX800	AFLMB-LX800
CPU	AMD Geode™ LX 800 (500MHz)	AMD Geode™ LX 800 (500MHz)	AMD Geode™ LX 800 (500MHz)	AMD Geode™ LX 800 (500MHz)	AMD Geode™ LX 800 (500MHz)	AMD Geode™ LX 800 (500MHz)
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536	AMD Geode™ LX 800 + AMD Geode™ CS5536	AMD Geode™ LX 800 + AMD Geode™ CS5536	AMD Geode™ LX 800 + AMD Geode™ CS5536	AMD Geode™ LX 800 + AMD Geode™ CS5536	AMD Geode™ LX 800 + AMD Geode™ CS5536
RAM	Supports one 1GB (maximum) 333MHz or 400MHz DDR SO-DIMM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM	Supports one 1GB (maximum) 333MHz or 400MHz DDR SO-DIMM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM
I/O Ports and Switches	1 x RS-232 COM port (RJ-45) 1 x RS-232/422/485 COM port (RJ-45) 1 x RJ-45 for 10/100Mbps 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x AT/ATX Switch	1 x RS-232 COM port (RJ-45) 1 x RS-232/422/485 COM port (RJ-45) 1 x RJ-45 for 10/100Mbps 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x AT/ATX Switch	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button
SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software programmable supports 1-255 sec. System reset					
Audio	AMP 1.5W + 1.5W	AMP 1.5W+1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W
Expansion	1 x Wireless LAN Module (USB Interface) 1 x bluetooth module ((USB Interface))	1 x Wireless LAN Module (USB Interface) 1 x bluetooth module ((USB Interface))	1 x Mini PCI ( Wireless LAN Module ) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI ( Wireless LAN Module ) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI ( Wireless LAN Module ) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI ( Wireless LAN Module ) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	N/A	N/A	N/A	N/A	N/A	1 x 2.5" HDD bay or Optional GPRS Module
Optional GPRS Module (support GSM 850,EGSM 900,DCS 1800 & PCS 1900)	N/A	N/A	N/A	N/A	Yes	
Construction Material	ABS + PC Plastic front frame Aluminum die casting body	ABS + PC Plastic front frame Aluminum die casting body	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Function	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Stand and Arm (VESA 75mm x 75mm)	Panel, Wall, Stand and Arm (VESA 75mm x 75mm)	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm / 100 x 100mm
Front Panel Color	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U
Dimensions (WxHxD) (mm)	180 x 135 x 55	180 x 135 x 55	226 x 140 x 41	234 x 184 x 42	276 x 227 x 50.7	304 x 246 x 50
Operation Temperature (°C)	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Storage Temperature (°C)	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	0.8 Kg	0.8 Kg	0.6 Kg	0.8 Kg	1.4 Kg	1.8Kg
IP Level(front panel)	IP 64	IP 64	IP 64	IP 64	IP 64	IP 64
EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC
Safety	UL, CB	UL, CB	UL, CB	UL, CB	UL, CB	UL, 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 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)	Resistive Type 5-Wire (touch controller IC is on board)
Power Adapter	P/N: 63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N: 63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N: 63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
Power Consumption	17W	15W	20W	20W	25W	29W

Windows CE support

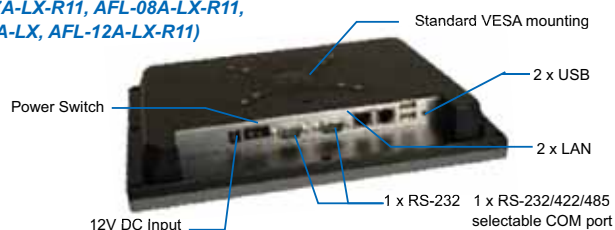
## Fully Integrated I/O

(AFL-056A-LX, AFL-057A-LX)



## Fully Integrated I/O

(AFL-07A-LX-R11, AFL-08A-LX-R11, AFL-10A-LX, AFL-12A-LX-R11)



# VIA CX700M Platform



Model	AFL-10A-CX	AFL-12B-CX	AFL-15A-CX	AFL-17A-CX	AFL-19A-CX
LCD Size	10.4"	12.1"	15"	17"	19"
Max Resolution	800 x 600	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m <sup>2</sup> )	400	450	350	300	300
Contrast Ratio	500:1	700:1	700:1	800:1	800:1
LCD Color	262K	262K	262K	16.7M	16.7M
Pixel Pitch (mm)	211.2(H) x 158.4(V)	0.240(H) x 0.240(V)	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)	120/100	160/160	120/100	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-CX700	AFLMB-CX700	AFLMB-CX700	AFLMB-CX700	AFLMB-CX700
CPU	VIA C7® (1.5GHz) with fan (noise: 39dB) Fanless VIA Eden™ (500MHz)	VIA C7® (1.5GHz) with fan (noise: 39dB) Fanless VIA Eden™ (500MHz)	VIA C7® (1.5GHz) with fan (noise: 35.1dB) Fanless VIA Eden™ (500MHz)	VIA C7® (1.5GHz) with fan (noise: 39dB) Fanless VIA Eden™ (500MHz)	VIA C7® (1.5GHz) with fan (noise: 39dB) Fanless VIA Eden™ (500MHz)
Chipset	CX700M	CX700M	CX700M	CX700M	CX700M
RAM	Supports one 200-pin 1GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports one 200-pin 1GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports one 200-pin 1GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports one 200-pin 1GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports one 200-pin 1GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM
I/O Ports and Switches	1x External SATA 1 x RS-232 1 x RS-232/422/485 2 x RJ-45 for GbE 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1x External SATA 1 x RS-232 1 x RS-232/422/485 2 x RJ-45 for GbE 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1x External SATA 1 x RS-232 1 x RS-232/422/485 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button	1x External SATA 1 x RS-232 1 x RS-232/422/485 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port	1x External SATA 1 x RS-232 1 x RS-232/422/485 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port
SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. System reset				
Audio	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W
Expansion	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	N/A	1 x 2.5" HDD bay or Optional GPRS Module	1 x 2.5" HDD bay or Optional GPRS Module	1 x 2.5" HDD bay	1 x 2.5" HDD bay
Optional GPRS Module (support GSM 850, EGSM 900, DCS 1800 & PCS 1900)	Yes	Yes	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Function	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel
Mounting	Panel / Wall mounting VESA 75 x 75mm	Panel / Wall mounting VESA 75 x 75mm / 100 x 100mm	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	Panel, Wall, Stand and Arm VESA 100mm x 100mm
Front Panel Color	7539U	7539U	Silver	Silver	Silver
Dimension (WxHxD) (mm)	276 x 226.9 x 50.7	304 x 246 x 55.5	394 x 309 x 61	428 x 350 x 65	470x 383 x 67
Operation Temperature (°C)	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 0°C~45°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 0°C~45°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	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	1.4 kg	1.8 kg	3.2 kg	5 kg	5.6 kg
IP Level(front panel)	IP 64	IP 64	IP 64	IP 64	IP 64
EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC
Safety	UL, CB	UL, CB	UL, CB	UL, CB	UL, CB
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)
Power Adapter	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:663SPU65105-000-RS Power: 80W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63SPU65105-000-RS Power: 80W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63SPU65105-000-RS Power: 80W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC	12VDC	12VDC
Power Consumption	34W	41W	41W	61W	64W

## Fully Integrated I/O

(AFL-10A-CX, AFL-12B-CX,  
AFL-15A-CX, AFL-17A-CX, AFL-19A-CX)

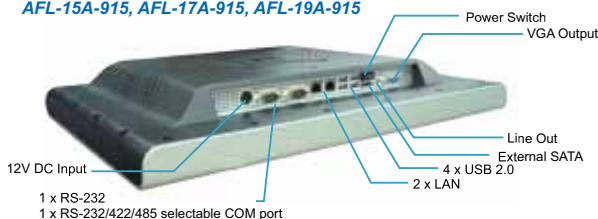


# Intel® 915 Family Platform

	<b>Fanless</b>	<b>Fanless</b>	<b>Fanless</b>	<b>Fanless</b>	<b>Fanless</b>	<b>Fanless</b>
Model	AFL-15A-915	AFL-15B-915	AFL-17A-915	AFL-17B-915	AFL-19A-915	AFL-19B-915
LCD Size	15"	15"	17"	17"	19"	19"
Max Resolution	1024x768	1024x768	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Brightness (cd/m <sup>2</sup> )	350	350	300	300	300	300
Contrast Ratio	700:1	700:1	800:1	800:1	800:1	800:1
LCD Color	262K	262K	16.7M	16.7M	16.7M	16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)
Viewing Angle (H-V)	140(H) / 125(V)	140(H) / 125(V)	160(H) / 160(V)	160(H) / 160(V)	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-9152-R10	AFLMB-9152-R10	AFLMB-9152-R10	AFLMB-9152-R10	AFLMB-9152-R10	AFLMB-9152-R10
CPU	Intel® Celeron® M (1.0GHz) with 512KB L2 Cache	Intel® Pentium® M Processor (up to 2.0GHz) Intel® Celeron® M processor	Intel® Celeron® M (1.0GHz) with 512KB L2 Cache	Intel® Pentium® M Processor (up to 2.0GHz) Intel® Celeron® M processor	Intel® Celeron® M (1.0GHz) with 512KB L2 Cache	Intel® Pentium® M Processor (up to 2.0GHz) Intel® Celeron® M processor
Chipset	Intel® 915GME/Intel® 910GML	Intel® 915GME	Intel® 915GME/Intel® 910GML	Intel® 915GME	Intel® 915GME/Intel® 910GML	Intel® 915GME
RAM	Supports One DDR2 SO-DIMM 1.0 GB(max.) /Two DDR2 SO-DIMM 2.0 GB (max.) (Operating Temperature :0°C-35°C)	Supports two 200-pin 2GB(maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports One DDR2 SO-DIMM 1.0 GB(max.) /Two DDR2 SO-DIMM 2.0 GB (max.) (Operating Temperature :0°C-35°C)	Supports two 200-pin 2GB(maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports One DDR2 SO-DIMM 1.0 GB(max.) /Two DDR2 SO-DIMM 2.0 GB (max.) (Operating Temperature :0°C-35°C)	Supports two 200-pin 2GB(maximum) 400MHz or 533MHz DDR2 SO-DIMM
I/O Ports and Switches	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio
SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software Programmable supports 1-255 sec. System reset					
Audio	AMP 1.5W+AMP 1.5W	AMP 3W + AMP 3W	AMP 1.5W+AMP 1.5W	AMP 3W + AMP 3W	AMP 3W+AMP 3W	AMP 3W + AMP 3W
Expansion	1 x Wireless LAN Module (Mini PCIe Interface )	1 x Wireless LAN Module (Mini PCIe Interface )	1 x Wireless LAN Module (Mini PCIe Interface )	1 x Wireless LAN Module (Mini PCIe Interface )	1 x Wireless LAN Module (Mini PCIe Interface )	1 x Wireless LAN Module (Mini PCIe Interface )
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Optional GPRS Module ( support GSM 850, EGSM 900, DCS 1800 & PCS 1900)	N/A	Yes	N/A	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Function	1 x Power ON/OFF LED on the front panel	1 x Power ON/OFF LED on the front panel	1 x Power ON/OFF LED on the front panel	1 x Power ON/OFF LED on the front panel	1 x Power ON/OFF LED on the front panel	1 x Power ON/OFF LED on the front panel
Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Stand and Arm (VESA 100mm x 100mm)
Front Panel Color	Silver	Silver	Silver	Silver	Silver	Silver
Dimensions (WxHxD) (mm)	394 x 309 x 61	394 x 309 x 74.6	428 x 350 x 65	428 x 350 x 76	470x 383 x 67	470x 383 x 78.4
Operation Temperature (°C)	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 0°C-45°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 0°C-45°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 0°C-45°C with CF card or SATA interface 2.5" SSD HDD
Storage Temperature (°C)	-20°C-60°C	-20°C-60°C	-20°C-60°C	-20°C-60°C	-20°C-60°C	-20°C-60°C
Net Weight	3.7 Kg	5.8 Kg	5.4 Kg	5.8 Kg	5.8 Kg	6.2 Kg
IP Level (front panel)	IP 64	IP 64	IP 64	IP 64	IP 64	IP 64
EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC
Safety	UL, CB	UL, CB	UL, CB	UL, CB	UL, CB	UL, CB
Touch Screen	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)
Power Adapter	Power: 60W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 84W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 84W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 96W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 84W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 96W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
Power Consumption	43W	63W (Intel® Pentium® M Processor 2.0GHz, 2GB memory, 40G HDD)	63W	80W (Intel® Pentium® M Processor 2.0GHz, 2GB memory, 40G HDD)	68W	82W (Intel® Pentium® M Processor 2.0GHz, 2GB memory, 40G HDD)

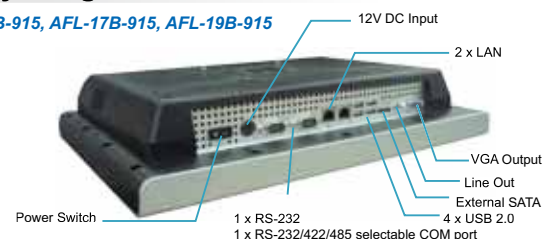
## Fully Integrated I/O

AFL-15A-915, AFL-17A-915, AFL-19A-915



## Fully Integrated I/O

AFL-15B-915, AFL-17B-915, AFL-19B-915



# AMD 690/AM2 Family Platform



Model	AFL-15B-690	AFL-17B-690	AFL-19B-690
LCD Size	15"	17"	19"
Max Resolution	1024x768	1280 x 1024	1280 x 1024
Brightness (cd/m2)	350	300	300
Contrast Ratio	700:1	800:1	800:1
LCD Color	262K	16.7M	16.7M
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(H) / 125(V)	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-690TAM2-R10	AFLMB-690TAM2-R11	AFLMB-690TAM2-R12
CPU	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)
Chipset	AMD 690T	AMD 690T	AMD 690T
Memory	Supports one 200-pin 1GB(maximum) DDR2 SO-DIMM	Supports one 200-pin 1GB(maximum) DDR2 SO-DIMM	Supports one 200-pin 1GB(maximum) DDR2 SO-DIMM
I/O Ports and Switches	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio
SSD	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software programmables 1-255 sec. System reset.		
Audio	AMP 3W + AMP 3W	AMP 3W + AMP 3W	AMP 3W + AMP 3W
Expansion	1 x Wireless LAN Module (PCIe mini card Interface )	1 x Wireless LAN Module (PCIe mini card Interface )	1 x Wireless LAN Module (PCIe mini card Interface )
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Optional GPRS Module(support GSM 850,EGSM 900,DCS 1800 & PCS1900)	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Functions	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall,Stand and Arm (VESA 100mm x 100mm)
Front Panel Color	Silver	Silver	Silver
Dimension (WxHxD) (mm)	394 x 309 x 74.6	428 x 350 x 76	470x 383 x 78.4
Operation Temperature (oC)	0°C~40°C for HDD 0°C~45°C with CF card or SATA interface 2.5" SSD HDD	0°C~40°C for HDD 0°C~45°C with CF card or SATA interface 2.5" SSD HDD	0°C~40°C for HDD 0°C~45°C with CF card or SATA interface 2.5" SSD HDD
Storate Temperature (oC)	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	5.8 Kg	5.8 Kg	6.2 Kg
IP Level (front panel)	IP 64	IP 64	IP 64
EMC	CE,FCC,CCC	CE,FCC,CCC	CE,FCC,CCC
Safety	UL,CB	UL,CB	UL,CB
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)
Power Adapter	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC

## Fully Integrated I/O

AFL-15B-690, AFL-17B-690, AFL-19B-690

