IEI Point-of-Sales System

08", 12", 15", 17" all-in-one touch POS PC

Designed for easy and simplified integration into point-of-sales (POS) application, IEI introduces the multi-function all-in-one touch POS.

The AFOLUX POS is equipped with an AMD Geode™ LX 800 allowing fanless operation with low power consumption, while still delivering multimedia performance for interactive setups.

The Enrich POS is equipped with an Intel® platform providing high performance and ensuring optimal memory, graphics, and peripheral support.

IEI's POS has an integrated wireless LAN module, touch screen, and multi peripheral device connections making it the ideal solution for retail and hospitality, and restaurant applications.

AFOLUX POS (12", 15")

Enrich POS-16x Series (12", 15")

IBX-700/800/900 Series Desktop POS PC

IBX-700/800/900 is a specially designed computer for POS business. The compact IBX POS PC can easily integrated with other devices, such as POS peripherals, monitors, etc. it's also perfect for kiosks.

Enrich POS-26x Series (15", 17")

Feature

- Comprehensive I/O interface for POS peripherals
- Versatile mounting suitable for diverse applications
- Built-in wireless LAN for remote communications
- Selectable AT/ ATX power mode
- Comprehensive interface for peripherals
- IP-64 compliant front panel for all-in-one POS system

IBX-700/800/900

EP-308A(08")

Built-in CPU Options

IEI provides the POS system with the newest and hottest CPU and chipset processor. IEI's POS PC offers high performance solutions to fulfill all the point-of-sales applications and keeps you being the leader in the POS industry.
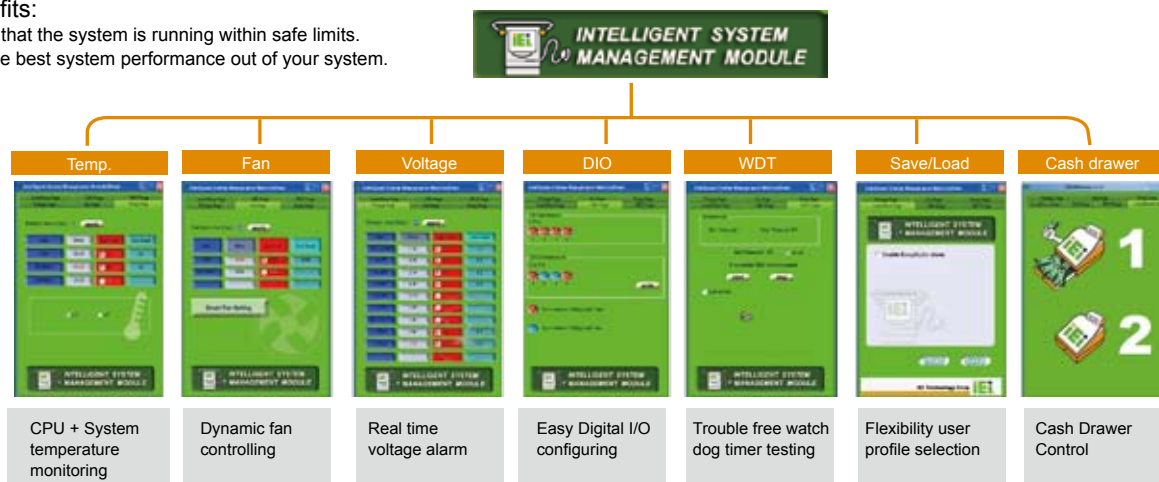
Brand Name	Code Name	CPU No.	Clock Speed (MHz)	FSB	L2 Cache	TDP	Chipset	Available Item
Celeron M	Dothan	373	1.00	400	512KB	21W	910GMLE	IBX-700-910 EP-162-910 EP-165-910 EP-265-910 EP-267-910
		370	1.50	400	1MB	5.5W	915GME	IBX-700-915
	Yonah	440	1.86	533	1MB	27W	945GME	EP-162-945 EP-165-945
	Merom	575	2.00	533	1MB	27W	GM45	EP-265-GM45 EP-267-GM45
Core Duo	Yonah	T2300E	1.66	667	2MB	31W	945GME	IBX-800-945GM
Celeron D	Cedar Mill	352	3.20	533	512KB	65W	945GM	IBX-900-945G
Pentium 4		651	3.40	800	2MB	65W	945G	IIBX-900-945G
Pentium Dual Core	Conroe	E2160	1.80	800	1MB	65W	945G	IBX-900-945G
Core 2 Duo	Wolfdale	E8400	3.00	1333	6MB	65W	Q35	IBX-900-Q35

Supervision Utility for POS Solution

The ISMM monitors system settings to prevent system instability or damage. The ISMM monitors system temperatures and voltages, cooling fans, watchdog timer and digital I/O.

Benefits:
Know that the system is running within safe limits.
Get the best system performance out of your system.

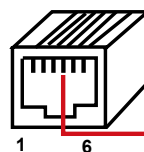| Temp.	Fan	Voltage	DIO	WDT	Save/Load	Cash drawer
CPU + System temperature monitoring	Dynamic fan controlling	Real time voltage alarm	Easy Digital I/O configuring	Trouble free watch dog timer testing	Flexibility user profile selection	Cash Drawer Control

• Watchdog timer prevents system lock-up

The watchdog timer will automatically restart the system if it stops responding, ensuring dependability during unattended operation.

With Watchdog Timer

Without Watchdog Timer
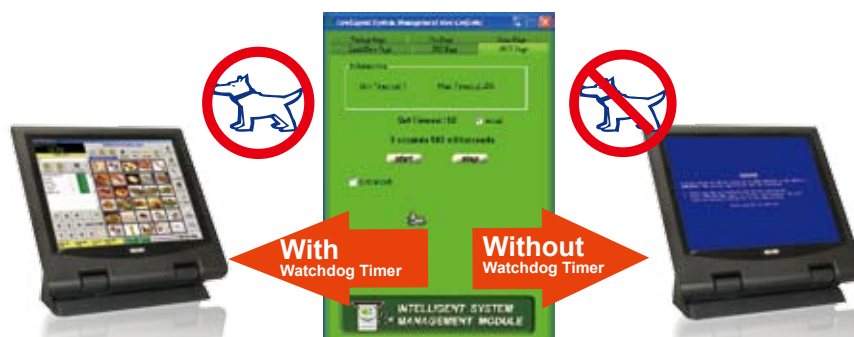
• Two Digital I/O with 12V power for cash drawer

IBX POS PC is equipped with a digital I/O RJ-12 12V port that provides extension for peripherals such as a cash drawer device, lamp, alarms etc.

Digital I/O control diagram

Super IO

GPI
GET STATUS

GPO
ACTION (OPEN/CLOSE)

Control Block

LOW LEVEL
(CASHDRAWER OPEN STATUS)
HIGH LEVEL
(CASHDRAWER CLOSE STATUS)

LOW LEVEL
(OPEN CASHDRAWER)
HIGH LEVEL
(CLOSE CASHDRAWER)

Cash Drawer

Cash Drawer RJ-12 Pin Assignments

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

IEI ISMM cash drawer status monitoring

IEI also provides a quick and easy tool to develop cash drawer application for POS program

Free ISMM API Support
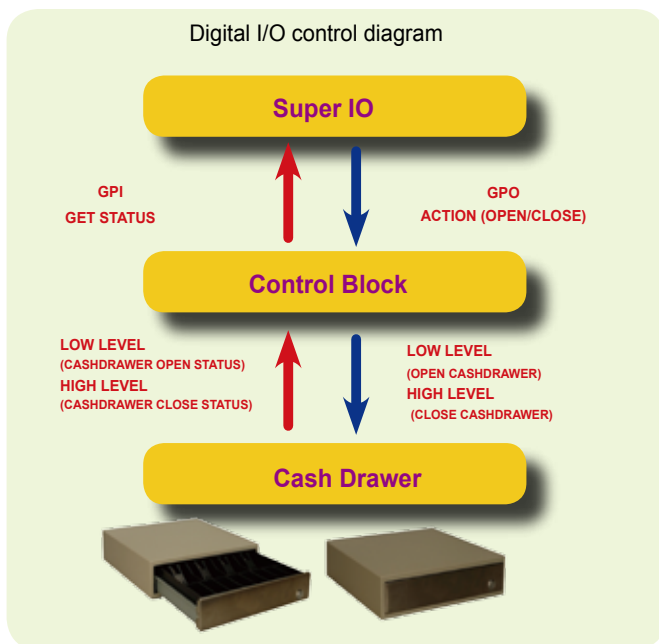
EP-308A Mini POS PC

For small and medium business, a compact and efficient POS system is the perfect match. IEI's new EP-308A Mini POS is just the right POS system for all the small and medium business owner!

EP-308A using the Intel® Atom™ processor, it consumes less power while still achieving high performance. This POS PC has a built-in 2" thermal printer and wireless LAN, and is ideally suited as the main POS system in a small to medium sized business, allowing the business owner to easily manage the business transactions and records. The small footprint EP-308A is perfect for any environment installation.

Feature
- 8" Mini POS with Intel® Atom™ processor
- Small footprint satisfies limited space requirements
- Extendable connections for peripheral devices
- Built-in 2" easy-loading thermal printer
- Built-in resistive touch screen
- Optional 802.11 b/g wireless LAN
- IP-64 compliant front panel

Built-in 2" Easy-Loading Thermal Printer with auto-cutting

---**High Speed Thermal Printer**
The built-in printer can print a 100 mm/s (800 dot lines/s) maximum.
---**Auto Cutter**
The built-in printer supports paper full cut or partial cut according to user selection.
---**Easy Paper Setting**
Paper can easily insert and auto loading is also available. When the paper jam, simple take the paper roll out and put it back.

Optional 802.11 b/g wireless LAN support
With the optional wireless LAN module installed, the POS can connect to an order taking machine and pass the information from the waiter to the kitchen. This speeds up service, shortening customer waiting time and speeding up food preparation.
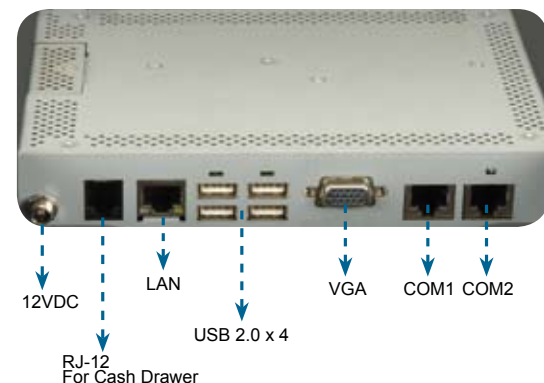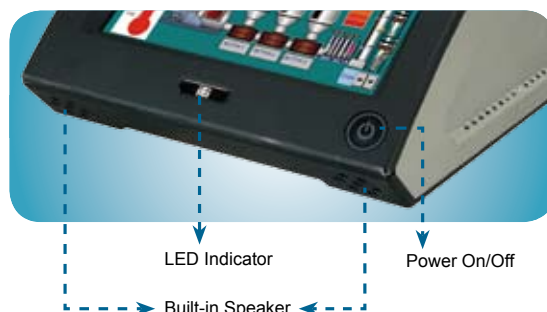
Order is taken and transferred to the kitchen via WiFi. The EP-308A can print out the order details in the kitchen.

Specifications

Model	EP-308A-N270-R10
LCD Size	8"
Resolution	800 x 600
Brightness (cd/m²)	300
Contrast Ratio	400:1
LCD Color	262K
Pixel Pitch (mm)	0.2025(H) x 0.2025(V)
Viewing Angle (H-V)	130/110
Backlight MTBF	30000
CPU	Intel® Atom™ 1.6G N270 processor
Chipset	Integrated in Intel® 945GSE
Graphic	Integrated in Intel® 945GSE
RAM	Built-in 1GB DDR2 memory System support 1 x 200 pin Dual Channel DDR2 677MHz up to 1GB
I/O Ports	1 x RJ45 RS232 COM Port 1 x RJ45 RS232/422/485 COM Port 1 x RJ12 Cash Drawer 1 x Giga LAN 4 x USB 2.0 1 x Power Button (Front Panel) 1 x Power Jack 1 x Reset switch 1 x AT/ATX switch
HDD Drive Bay	1 x SATA HDD
SSD Drive Bay	1 x CFII
Audio	AMP 1.5W + AMP 1.5W
Construction Front Panel	ABS + PC Plastic front frame
Contruction Chassis	Aluminum Chassis
Power Adapter	FSP150-AAAN1703, VAC:90~264V, 24V/120W
LED Function	1 x LED on Front Panel for Power ON/OFF
Touch Screen	Resistive Type -5Wire
Printer	Built-in 2" thermal printer with Auto-cutting
Operation Temperature (°C)	0°C~40°C
IP Level	IP64
Safety & EMI	CE / EMC / FCC / CB /CCC

I/O Interface

LED Indicator　　　　Power On/Off

Built-in Speaker

12VDC　　LAN　　　　VGA　　COM1 COM2

USB 2.0 x 4

RJ-12
For Cash Drawer

AFL–12B/15A–LX Light POS PC

- Fanless design for rigorous environments
- Customer-friendly self-service solutions
- All-in-one easily maintained system
- Versatile mounting suits diverse applications
- Selectable AT or ATX power mode
- Built-in 1.5W speakers
- IP 64 front panel protection withstand harsh environment

Feature 1　Space-saving System

Counter Space Saving!
Built-in Wireless Module　　Integrated Touch Panel
LCD/CRT Display
Server
Mouse
Modem
Keyboard
Removable Base

	General POS system with separate parts occupy space	AFOLUX POS Panel PC System
Building Cost	High	Low
Maintenance	Complicated	Easy
Appearance	A POS system with lots of cables and peripherals	Simple, slim and luxurious
Space Occupy	High	Low

WIN!

Feature 2　Flexible connections for peripherals

The AFOLUX POS PC supports full I/O and is equipped with various connectors for different peripherals.

VESA 75/100
12V DC In
2 x RS-232
2 x USB 2.0
1 x RJ-12 (12V) for cash drawer
1 x LAN
Power Switch

VFD Customer Display
Card Reader
Thermal Printer
Bar Code Reader
Cash Drawer
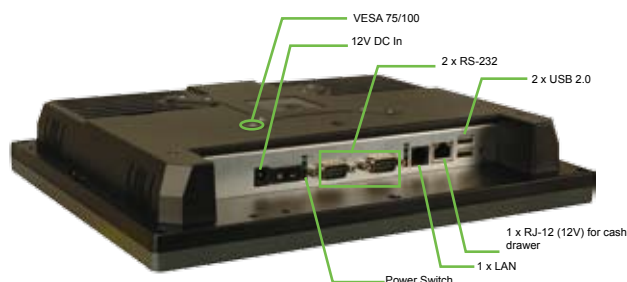
- **One cash drawer port via RJ-12 with 12 V power**

The AFOLUX POS is equipped with a digital I/O RJ-12 12 V port that provides extension for peripherals such as a cash drawer devices.
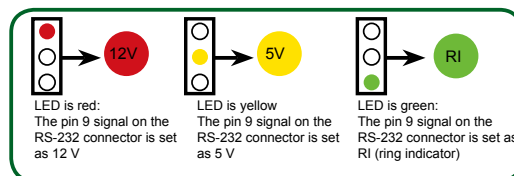
1
Automation

2
**Point of
Service**

3
Digital
Signage

4
RISC-
based
Solutions

5
Medical
Solutions

- ## Two RS-232 with selectable RI/5V/12V

Convenient Jumper Setting in front of the rear
Since the peripherals require a +5V/+12VDC RS-232 connection, set the corresponding I/O COM port voltage output on pin-9 to +5V/+12V through the switch in front of the rear.

LED Indicator for identifying power selected by jumper

12V
LED is red:
The pin 9 signal on the RS-232 connector is set as 12 V

5V
LED is yellow
The pin 9 signal on the RS-232 connector is set as 5 V

RI
LED is green:
The pin 9 signal on the RS-232 connector is set as RI (ring indicator)

- ## Two USB ports for peripheral connectivity

Optional MSR and MSI
1 **Magnetic Card Reader**
2 **Smart Card Reader**
3 **Optional iButton**

1 **Magnetic Card Reader**
• Credit card data collection
• Membership card

2 **Smart Card Reader**
• Storage Card

3 iButton
Each iButton.has a unique serial number and it is unalterable serial number. It can be used as a key or identifier for
• Access controls for POS terminal
• eCash transactions
The iButton can be used to store cash for small transactions

**Feature 3**   ## Built-in 802.11b/g wireless module

The integrated PIFA antenna on the AFOLUX POS panel PC ensures uninterrupted wireless connection in retail stores and restaurants. The wireless option reduces cable costs and enables more devices to be connected to transmit transaction or inventory data in real time.

**Wireless
802.11 b/g**

Restaurant	**Transportation**	**Retail**
Handheld computers/PDAs to take order	Mobile Coffee Shop	Real-time inventory checking with handheld barcode scanner

Network

Headquarter Center Server

Credit Card Payment Server
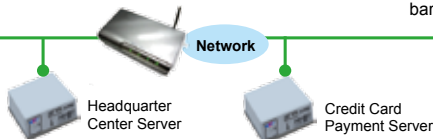
Feature 4   ## Fanless System

The AMD Geode™ LX 800 processor generates less heat. AFOLUX POS models with AMD Geode™ LX 800 are high-performance fanless platforms.

Feature 5   ## IP 64 Front Panel Compliance

IP 64

IP 64 compliance guarantees the front panel is dustproof and water-proof for harsh environments.

Feature 6   ## POS Stand

- ## All-in-one design ideal for public applications

STAND-POS12
(For AFL-12B-LXPOS)

STAND-POS15
(For AFL-15A-LXPOS)

- ## Easy Remove and Installation Design

Screw to the hole

- ## Easily arrange the cables inside the stand

EP-162 & EP-165 POS PC

The EP-162/165 POS system is a 12"/15" all-in-one touch POS system. With the fanless or external fan design, the EP series provides outstanding computing performance and low-power consumption for diverse POS applications.

EP-162 Series   **EP-165 Series**

- Second displays support including digital signage, monitor and VFD display.
- Full I/O interface for peripherals
- Smart mechanical design
- Dust-proof CPU Protection
- Heat-dissipated Aluminum Chassis
- IP-64 Compliant Front Panel
- Wireless Communication Enabled

EP-162/165 Series Product Line

Fanless

CPU	Chipset Platform	LCD Size	Model
Celeron® M	910GMLE	12"	EP-162-910
		15"	EP-165-910
Celeron® M Core™ Duo (Pentium® M/ Core™ Duo/ Core™2 Duo Supported)	945GME	12"	EP-162-945
		15"	EP-165-945

Optional CPU Selection Guide (for 945GME model)

CPU Brand Name	Generation	CPU No.	Clock Speed (GHz)
Core™ 2 Duo	Merom (Napa Refresh)	T/L/U7xxx T/L/U5xxx	From 1.06 GHz to 2.33 GHz
Core™ Duo Core™ Solo	Yonah	T/L/U2xxx T/L/U1xxx	From 1.06 GHz to 2.33 GHz
Celeron® M	Merom (Napa Refresh)	5xx	From 1.06 GHz to 2.00 GHz
	Yonah	4xx	

1
Automation

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Point of Service

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Digital Signage

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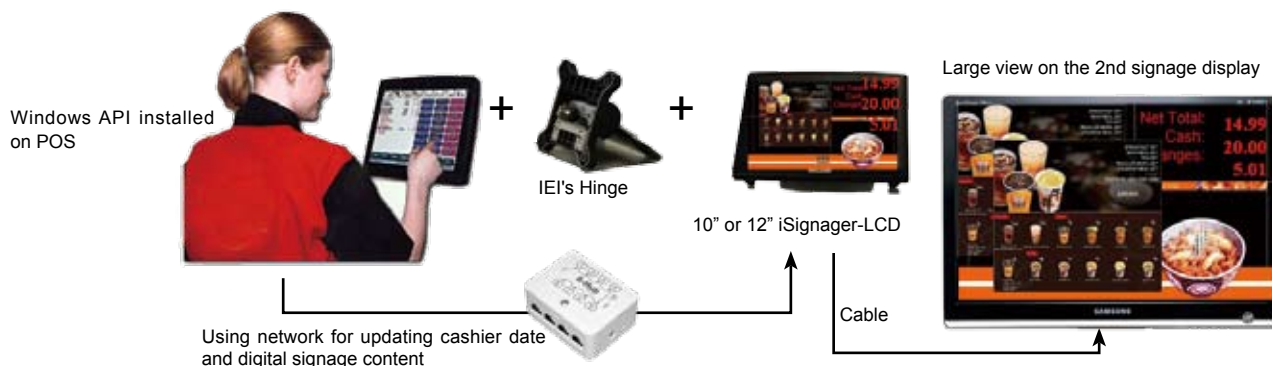RISC-based Solutions

5
Medical Solutions

Feature 1 ## Support Second Display

The EP series POS supports second independent display.
The supported display devices include

- iSignager-LCD
- AFOLUX Monitors
- IEI's VFD solution
- Other displays compatible with VESA 100 mm mounting standard

• iSignager-LCD

The EP series POS supports 10" and 12" iSignager-LCD. IEI provides Windows API for users to integrate with their own POS program for updating the real-time POS information displayed on the iSignager-LCD. With this integration, the iSignager-LCD provides digital signage and VFD functions at the same time.

Large view on the 2nd signage display

Windows API installed on POS

IEI's Hinge

10" or 12" iSignager-LCD

Net Total:
Cash: 14.99
anges: 20.00
5.01

Using network for updating cashier date and digital signage content

Cable

• VFD Display
IEI offers two types of VFD as following

AFLP-CDW01/ AFLP-CDB01

EPP-16VFD-U

• AFOLUX Monitor
IEI's AFOLUX series monitors supports 4-in-1 multiple video inputs including S-Video, composite video, component video and VGA.
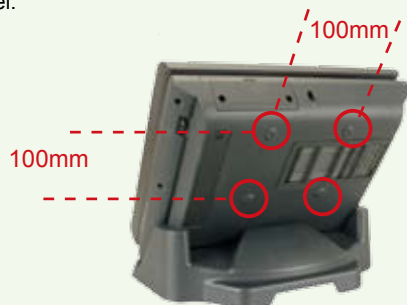
EP Series

IEI's Hinge

AFOLUX 8",10" Monitor

AFOLUX monitor supports 4 video inputs

S-Video

VGA

Composite

Component

• Other Displays
The EP series POS supports other displays compatible with VESA mounting standard (100mm x 100mm) on the rear panel.

100mm

100mm

TV Box

Fanless System

Component

DVD Player

CCD Camera

P/S2 connector

Powered COM2 (5V/12V)

12VDC output

USB

VGA

Feature 2 Full I/O Interfaces for Peripherals

LAN Port   DB-25   Powered COM (RI/5V/12V) with LED indicators   AT/ATX

DC Input

Audio Output

PoweredUSB (12V)   USB   Digital I/O (RJ-12)   PoweredUSB (24V)   24VDC output
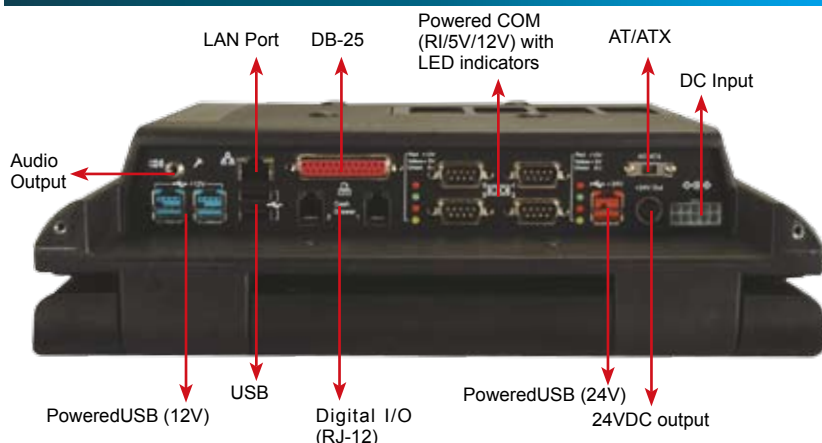
EP series POS is equipped with full I/O interfaces for easy connecting with different peripherals. The connections can be either via the rear panel or the bottom panel.

• Powered COM Port with LED Indicator

The voltage of the powered COM port is selected by configuring the onboard jumper. Each powered COM port has a set of LEDs to indicate the current output voltage. This prevents plugging a device that doesn't need power into the port.

• Identify LED color:

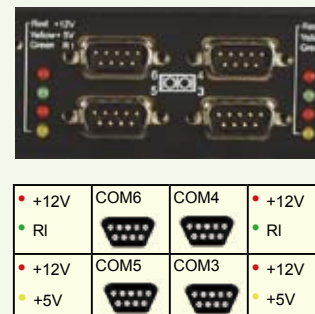|	
12V	The voltage supplied from the port was set as 12V
5V	The voltage supplied from the port was set as 5V
RI	The voltage supplied from the port was set as RI (ring indicator)

The output voltage of the powered COM is selectable respectively by opening and shorting the control pins onboard.

• On the rear panel

+12V
+5V

• On the bottom panel

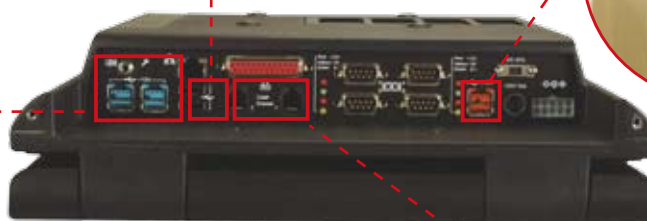| +12V	COM6	COM4	+12V
RI			RI
+12V	COM5	COM3	+12V
+5V			+5V
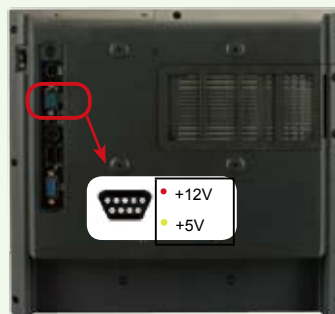
• PoweredUSB with 5V/12V/ 24V supply

The EP-162/165 POS is equipped with the convenient PoweredUSB interface which is widely used in peripherals of POS system such as receipt printer, barcode scanner, pin pad, and payment terminal.

USB

PoweredUSB 24V

PoweredUSB 12V

• Two Digital I/O with 12V/24V power supplies

EP-162/ 165 POS is furnished with two digital I/O RJ-12 with selectable 12V/ 24V power that provides expansion for cash drawers.

12V/24V Cash Drawer

- ## Extended power supply for 5V/ 12V/ 24V peripherals

Extra connectors with 5V/ 12V/ 24V power are available on both POS I/O interface panels and power adapter for peripheral devices.
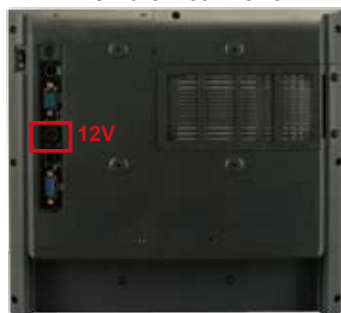
| • On the Rear Panel | • On the Bottom Panel | • ACE-D825A-H-RS |

12V

24V

12V 24V

- ## AT/ ATX Power Mode Selection

The EP-162/165 POS provides AT and ATX power modes for users to choose the best solution for their applications by simply switching the button on the I/O.

AT/ATX Switch

AT Power Mode, system powered on/off by central plug, is suitable when the EP-162/ 165 is mounted on the wall.

ATX Power Mode allows the computer to be turned on/off via software or network. In ATX mode, the system goes into standby mode when not in use. It is ideal for power saving.

Feature 3 Wireless Communication Enabled

The EP series POS supports 802.11 a/b/g WiFi connections in business environment.

WiFi AP

Server

EP Series POS

Portable
Handheld
Device

Feature 4 Windows® OS support

IEI offer the OS image for the EP Series POS including Windows XP Embedded, Windows Embedded CE and WEPOS.

Windows·XP Embedded

Windows Embedded CE

Microsoft
Windows
Embedded
for Point of Service
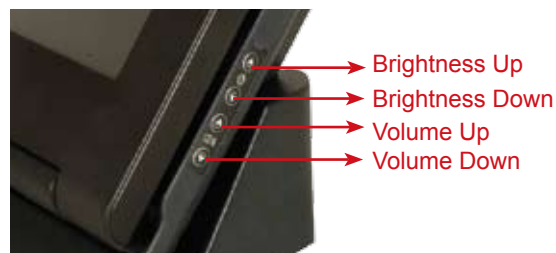
Feature 5 | Smart Mechanical Design

• Easy-to-Swap SATA Hard Disk Drive

The special designed HDD slot makes it easy to swap SATA HDD
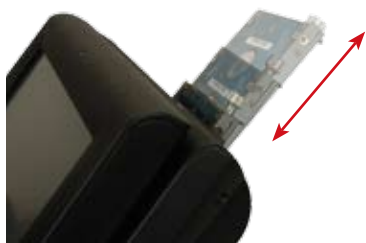
• Contrast and Volume Control Buttons

Contrast and Volume Control Buttons on the right side panel are easily reached and adjusted the brightness and volume.

Brightness Up
Brightness Down
Volume Up
Volume Down

• Dust-proof CPU Protection

The dust cover keeps dust out of the system, while still allowing the necessary heat dissipation.

• Optional CF Card Storage

The EP Series POS supports CompactFlash Card storage.

Heat
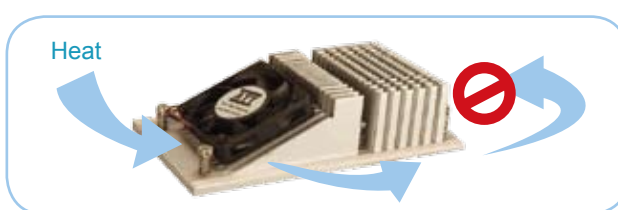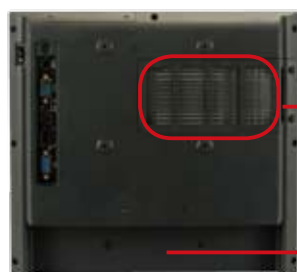
Aluminum made Chassis

• Adjustable Swivel Angle for the Best View

The viewing angle of the EP series monitor is adjustable. With this special hinge design, the monitor displays content clearly at anytime, even when it is wall mounted.

• Built-in Speakers

The EP series POS pre-install with two 3 Watt speakers at the customer side.
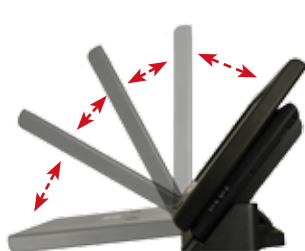
• Adjustable front panel over 120°   • Adjustable second display for 45°

45°

2 x 3W Speaker

Feature 6 | Various Mounting Solutions for Diverse Environment

• Wall-mounting

• POS Stand

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Automation

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Point of Service

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Digital Signage

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RISC-based Solutions

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Medical Solutions
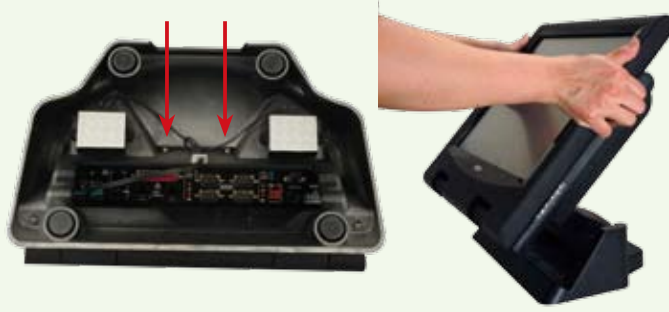
EP-265/267 Modular Construction POS

The EP-265/267 is the multi-function all-in-one POS system and it's ideal for retailer or hospitality. The system supports a second display, facing the customer, for dynamic advertisements or information for the customer. The modular design of the system allows the different parts to be replaced quickly and easily, for quick maintenance. A wide range of I/O interfaces allow connections to almost any peripheral device.

A choice of 15" and 17" Touch Screens with a tilt angle from 20 ~ 90° offers you maximum flexibility and convenience. The stylish and fancy outlook EP-265/267 POS system is excellent for any business and offer a sense of fashion.

Feature

- Modular construction design for easy maintenance
- 20-90° adjustable main display
- I/O interface for easy peripherals connection
- Two 2.5" SATA hard disk bays and one CompactFlash card slot for storage
- IP-64 compliant front panel
- Support second display with adjustable swivel angle
- Effective Heat Dissipation System
- Built-in wireless LAN for remote communication

Model	**Fan-less** EP-265-910	**High Performance** EP-265-GM45	**Fan-less** EP-267-910	**High Performance** EP-267-GM45
LCD Size	15"	15"	17"	17"
CPU	Intel® Celeron® M 1GHz/ 512KB L2 cache	Intel® Celeron® M 2GHz/ 1MB L2 cache	Intel® Celeron® M 1GHz/ 512KB L2 cache	Intel® Celeron® M 2GHz/ 1MB L2 cache
Chipset	Intel® 910GMLE+ ICH6-M	Intel® GM45+ ICH9M	Intel® 910GMLE+ ICH6-M	Intel® GM45+ ICH9M
Memory	Built-in 1GB DDR2 memory, supports 2 x 240 pin dual channel DDR2 400/533MHz up to 2GB	Built-in 1GB DDR2 memory, supports 2 x 240 pin dual channel DDR2 667/800MHz up to 2GB	Built-in 1GB DDR2 memory, supports 2 x 240 pin dual channel DDR2 400/533MHz up to 2GB	Built-in 1GB DDR2 memory, supports 2 x 240 pin dual channel DDR2 667/800MHz up to 2GB
Max Resolution	1024 x 768		1280 x 1024	
Brightness (cd/m²)	350		300	
Contrast Ratio	400:1		800:1	
LCD Color	262K		16.7M	
Touch Screen Type	Resistive Type 5-Wire		Resistive Type 5-Wire	

Optional CPU Selection Guide (for GM45 model)

CPU Brand Name	Generation	CPU No.	Clock Speed (GHz)	FSB(MHz)	L2 Cache	TDP
Core™2 Duo	Penryn	T9300	2.50	800	6MB	35W
		T8300	2.40		3MB	
		T8100	2.10		3MB	
Core™2 Extreme	Merom (Santa Rosa)	X7900	2.80	800	4MB	44W
		X7800	2.60			
Core™2 Duo		T7800	2.60			35W
		T7700	2.40			
		T7500	2.20			
		T7300	2.00			
		T7250	2.00		2MB	
		T7100	1.80			
		L7700	1.80		4MB	17W
		L7500	1.60			
		L7300	1.40			

PS. Please refer to 2008 IPC Catalog P6-P10 for more information

Feature 1 | Effective Heat Dissipation System

A combination of heat sinks and heat pipes transfer heat away from the CPU and other heat producing components. A large heat sink is situated near the front mesh cover for maximum cooling.
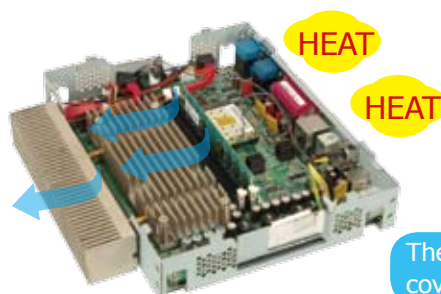
HEAT

HEAT

The main board inside the meshed cover and heat dissipation

Feature 2 | Modular Construction Design

The EP-265/267 all-in-one POS system consists of three sections, the LCD module, the support pole module, and the main board module. Users can simply replace each module if any part needs repair. The modular design reduces the total cost on maintenance and after-sale service.

LCD Module

Support pole module

The main board Module

Feature 3 | Free-to-Adjust Display

IEI introduces the unique design of the free-to-adjust pole stand for second displays. The pole stand allows up and down, left and right (-45º to 45º) angle adjustment. The second display can be adjusted for the ideal angle for customer viewing and the main monitor can be adjusted for best viewing by the operator.

20°

90°

Left and right (-45º to 45º) angle adjustment

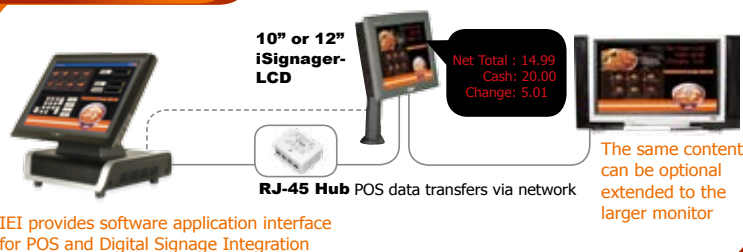Up and down angle adjust

Angle adjust between 20º to 90º

Feature 4 | Second Display Ready

To maximize the sales revenue in the competitive business environment, the high density in-store promotion is an burgeoning marketing method. One of the implementation is the advertisement on second display at the point-of-sales.

IEI EP-265/267 POS system allows various second displays, including digital signage, second monitor, and VFD.

• iSignager Digital Signage

IEI iSignager-LCD is an independent exercising digital signage display. IEI provides software application interface for users to integrate their own POS program to communicate with the iSignager-LCD and display the real-time POS data on the iSignager-LCD. The independent digital signage will not interrupt the POS system. In addition, the iSignager-LCD combines the digital signage and VFD dual functions together.

Implementation

10" or 12" iSignager-LCD

Net Total : 14.99
Cash: 20.00
Change: 5.01

RJ-45 Hub POS data transfers via network

IEI provides software application interface for POS and Digital Signage Integration

The same content can be optional extended to the larger monitor

• VFD Display

IEI offers VFD display with pole stand for user's options. The in-house design VFD perfectly match to the outlook of EP-265/267 POS and present the sense of style.

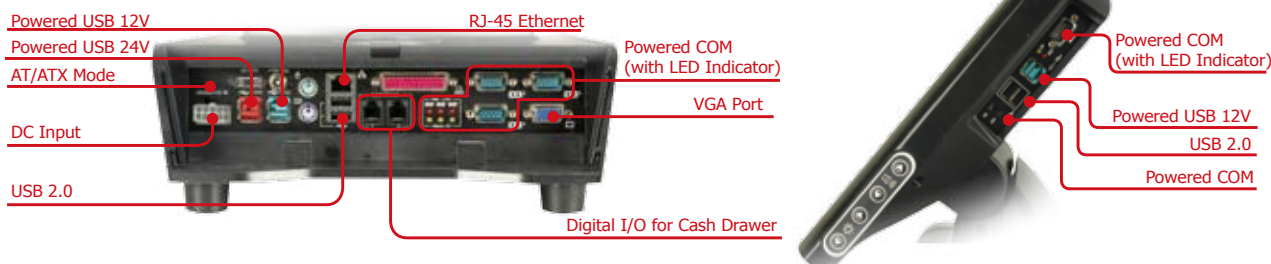### • AFOLUX Monitor

IEI AFOLUX monitor supports multiple video inputs for contents from TV Box, DVD players or CCD camera.

S-Video — TV Box

VGA — Fanless System

Component — DVD Player

Composite — CCD Camera

1 Automation

2 Point of Service

3 Digital Signage

4 RISC-based Solutions

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Feature 5   Extensive I/O Interface

EP-265/267 POS system provides the comprehensive I/O interface on both the rear panel and the bottom panel. The bottom panel I/O interface is ideal for the long-lasting peripherals connections and the rear panel I/O is for the often plug-and-play accessories with the easy access.

Powered USB 12V
Powered USB 24V
AT/ATX Mode
DC Input
USB 2.0
RJ-45 Ethernet
Powered COM (with LED Indicator)
VGA Port
Digital I/O for Cash Drawer

Powered COM (with LED Indicator)
Powered USB 12V
USB 2.0
Powered COM

• Powered COM port with LED Indicator

There are four powered COM ports on the system. Each powered COM port has a set of LEDs to indicate the current voltage setting, yellow indicates 5V and red indicates 12V.

The powered USB on the bottom panel is selectable by opening and shorting the control pins onboard

The powered USB on the rear panel is selectable by the jumper switch

• PoweredUSB for peripherals

Most POS peripherals are designed with USB connectors and requires the power supply from the POS system. The EP-265/267 are equipped with 5V/12V/24V PoweredUSB to fulfill user's demands for peripherals connections.

● **USB 2.0**
2 pcs on rear panel
2 pcs on bottom panel

● **12V PoweredUSB**
1 pcs on rear panel
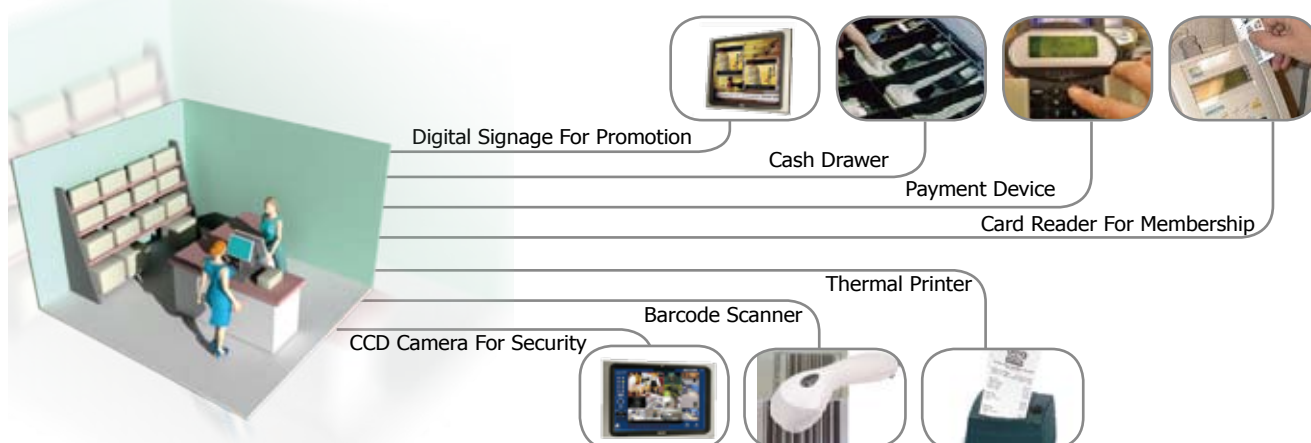1 pcs on bottom panel

● **24V PoweredUSB**
1 pcs on bottom panel

• Digital I/O for Cash Drawer

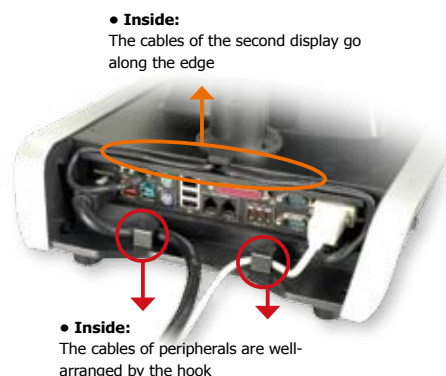The EP-265/267 POS system is furnished with two digital I/O (RJ-12) for cash drawer connections.

• Extend your service by add-on peripherals

Digital Signage For Promotion

Cash Drawer

Payment Device

Card Reader For Membership

Thermal Printer

Barcode Scanner

CCD Camera For Security

• Well-organized cable management

Cables are neatly organized and hidden inside the system base to make for easy cable management.

● **Inside:**
The cables of the second display go along the edge

● **Outside:**
Well-organized cables

● **Inside:**
The cables of peripherals are well-arranged by the hook

**Feature 6**   Unique Mechanical Design

• Easy-to-swap Hard disk and CF card

Easy maintenance is one of the top criterion for the POS system. The EP-265/267 POS system introduce the easy-to-swap two 2.5" SATA hard disks and CompactFlash Card slots for users change the storage devices in a quick way.

2 x 2.5" SATA HDD Slots
1 x CF Card Slot

• Contrast and Volume Control Buttons

Contrast and Volume Control Buttons on the right side panel are easily reached and adjusted the brightness and volume

Volume Up
Volume Down
Brightness Up
Brightness Down
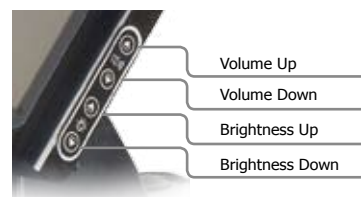
• LED Light-on Logo

The power indicator LED is behind the IEI logo. When the LED is orange, the system is plugged in, but turned off. When the LED is blue, the system is turned on.

Orange when Power Off   **Blue when Power On**
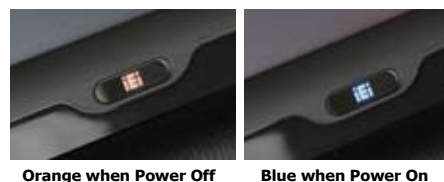
Feature 7   Built-in Wireless LAN

The EP series POS supports 802.11 a/b/g Wireless LAN connections in business environment.

▼**Figure: Wireless Communication Network**

Server

Portable Handheld Device

POS Device

▲**Applications in Warehouse and Restaurant**

◄**Built-in 802.11 a/b/g wireless with PIFA antenna**

1
Automation

2
Point of Service

3
Digital Signage

4
RISC-based Solutions

5
Medical Solutions

Specifications

Model	AFL-12B-LXPOS	AFL-15A-LXPOS	AFL-15AE-LXPOS	EP-162-910	EP-162-945	EP-165-910	EP-165E-910	EP-165-945	EP-165E-945
LCD Size	12.1"	15"	15"	12.1"		15"			
CPU	AMD Geode™ LX 800 (500MHz)			Intel® Celeron® M 1GHz / 512KB L2 cache	• Intel® Celeron®M 1.86GHz/ 1MB L2 cache • Intel® Core™ Duo 1.66GHz/ 2MB L2 cache	Intel® Celeron® M 1GHz / 512KB L2 cache		• Intel® Celeron®M 1.86GHz/ 1MB L2 cache • Intel® Core™ Duo 1.66GHz/ 2MB L2 cache	
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536			Intel® 910GMLE + ICH6-M	Intel® 945GME + ICH7-M	Intel® 910GMLE + ICH6-M		Intel® 945GME + ICH7-M	
Graphic	x			Integrated in 910GMLE with DB-15 VGA output	Integrated in 945GME with DB-15 VGA output	Integrated in 910GMLE with DB-15 VGA output		Integrated in 945GME with DB-15 VGA output	
Memory	Support 1GB (maximum) 333 MHz or 400 MHz SO-DIMM			Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 400/533MHz up to 2GB	Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 533/667MHz up to 4GB	Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 400/533MHz up to 2GB		Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 533/667MHz up to 4GB	
Max Resolution	800 x600 (1024 x 768)	1024 x 768	1024 x 768	1024 x 768		1024 x 768	1024 x 768	1024 x 768	1024 x 768
Brightness (cd/m2)	350 (450)	350	250	400		350	250	350	250
Contrast Ratio	500:1 (700:1)	700:1	600:1	500:1		700:1	600:1	700:1	600:1
LCD Color	262K	262K	16.7M	262K		262K	16.7M	262K	16.7M
Pixel Pitch (mm)	0.3075(H) x 0.3075(V) (0.240(H) x 0.240 (V))	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.24(H) x 0.24(V)		0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)
Viewing Angle (H-V)	140/ 120 (160/160)	140/ 125	160/ 160	120/ 100		140/ 125	160/ 160	140/ 125	160/ 160
Backlight MTBF	50000 hrs	50000 hrs	40000 hrs	50000 hrs		50000 hrs	40000 hrs	50000 hrs	40000 hrs
Touch Screen	Resistive Type 5-Wire			Resistive Type 5-Wire, Support RS-232 interface. Capacitive Type supported by order					
HDD	1 x 2.5" IDE HDD Bay			1 x 2.5" SATA HDD Bay					
SSD	1 x CF Type II slot			1 x CF Type II slot					

I/O Interface	Display	N/A			1 x VGA Port					
	PoweredUSB	2 x USB 2.0 : 2 x 5V PoweredUSB on the bottom panel			7 x USB 2.0 : 2 x 5V PoweredUSB on the rear panel 2 x 5V PoweredUSB on the bottom panel 2 x 12V PoweredUSB on the bottom panel 1 x 24V PoweredUSB on the bottom panel					
	Powered COM	2 x COM Port with LED indicators: 2x RI/ 5V/ 12V Powered COM on the bottom panel			5 x COM Port with LED indicators : 1x 5V Powered COM on the rear panel (COM2) 2x 5V/ 12V Powered COM on the bottom panel (COM3/ COM5) 2x 12V/ RI Powered COM on the bottom panel (COM4/ COM6)					
	Cash Drawer Port	1 x 12V RJ-12 connectors for cash drawer			2 x 12V/ 24V RJ-12 connectors for cash drawer					
	LPT	N/A			1 x DB-25					
	LAN	1 x giga LAN			1 x giga LAN					
	Wireless	802.11 a/b/g with PIFA antenna, PCIe interface			802.11 a/b/g with PIFA antenna, PCIe interface					
	Audio	1.5W + 1.5W amp. audio jack on the bottom			3W + 3W amp. audio jack on the bottom					
	Power Switch	1 x Power Switch with LED on Front Panel 1 x AT / ATX Switch			1 x 12V/ 24V 5 pin DC-IN Power Jack 1 x Power Switch with LED on Front Panel 1 x AT / ATX Switch					
	Quick Buttons	N/A			Brightness & Volume control					
Power	Adapter	90VAC-264VAC Power Adapter			252W Power Adapter (ACE-D825A-H-RS)					
	Input	N/A			12V/24V DC in					
	Output	12VDC			12VDC at 15A, 24VDC at 8A					
	Consumption	48W	60W		50W	88W		50W		88W
Mounting		STAND & VESA 75/ 100 Wall Mounting			Main display: STAND & VESA 100 Wall Mounting / Second display: VESA 75 mounting					
Construction		ABS + PC Plastic front Panel			ABS + PC Plastic front Panel Aluminum Alloy Chassis					
Color		Black	Silver		Black					
Operation Temperature (ºC)		0~50ºC			0~40ºC					
IP Level		IP64 (Front Panel)			IP64 (Front Panel)					
Safety & EMI		CE / FCC / CCC / CB / UL			CE / EMC / FCC / CB / UL					
Dimensions (WxHxD)		304 x 246 x 49.5 mm	394 x 309 x 61 mm		327 x 294 x 219 mm		387 x 321x 221 mm			
Net Weight		1.80 Kg	3.20 Kg		6.84 Kg		8.34 Kg			

Model	EP-265-910	EP-265E-910	EP-265-GM45	EP-265E-GM45	EP-267-910	EP-267-GM45
LCD Size	15"		15"		17"	17"
CPU	Intel® Celeron® M 1GHz / 512KB L2 cache		Intel® Celeron® M 2GHz / 1MB L2 cache		Intel® Celeron® M 1GHz / 512KB L2 cache	Intel® Celeron® M 2GHz / 1MB L2 cache
Chipset	Intel® 910GMLE + ICH6-M		Intel® GM45 + ICH9M		Intel® 910GMLE + ICH6-M	Intel® GM45 + ICH9M
Graphic	Integrated in 910GMLE with DB-15 VGA output		Integrated in GM45 with DB-15 VGA output		Integrated in 910GMLE with DB-15 VGA output	Integrated in GM45 with DB-15 VGA output
Memory	Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 400/533MHz up to 2GB		Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 667/800MHz up to 2GB		Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 400/533MHz up to 2GB	Built-in 1GB DDR2 memory system supports 2 x 240 pin dual channel DDR2 667/800MHz up to 2GB
Max Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m²)	350	250	350	250	300	300
Contrast Ratio	400:1	600:1	400:1	600:1	800:1	800:1
LCD Color	262K	16.7M	262K	16.7M	16.7M	16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	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)
Viewing Angle (H-V)	120 / 100	160 / 160	120/ 100	160 / 160	160/ 160	160/ 160
Backlight MTBF	50000 hrs	40000 hrs	50000 hrs	40000 hrs	50000 hrs	50000 hrs
Touch Screen	Resistive Type 5-Wire, Support RS-232 interface. Capacitive Type supported by order				Resistive Type 5-Wire, Support RS-232 interface. Capacitive Type supported by order	
HDD	2 x 2.5" SATA HDD Bay				2 x 2.5" SATA HDD Bay	
SSD	1 x CF Type II slot				1 x CF Type II slot	

I/O Interface	Display	1 x VGA Port	1 x VGA Port
	PoweredUSB	7 x USB 2.0 2 x 5V PoweredUSB on the rear panel 2 x 5V PoweredUSB on the bottom panel 1 x 12V PoweredUSB on the rear panel 1 x 12V PoweredUSB on the bottom panel 1 x 24V PoweredUSB on the bottom panel	
	Powered COM	4 x COM Port with LED indicators 3 x 5V/ 12V Powered COM on the bottom panel (COM3/ COM4/ COM5) 1 x 5V/ 12V Powered COM on the rear panel (COM1)	
	Cash Drawer Port	2 x 12V/ 24V RJ-11 connectors for cash drawer	2 x 12V/ 24V RJ-11 connectors for cash drawer
	LPT	1 x DB-25	1 x DB-25
	LAN	1 x giga LAN	1 x giga LAN
	Wireless	802.11 a/b/g with PIFA antenna, PCIe interface	802.11 a/b/g with PIFA antenna, PCIe interface
	Audio	3W + 3W amp. audio jack on the bottom	3W + 3W amp. audio jack on the bottom
	Power Switch	1 x 12V/ 24V 2x5 pin DC-IN Power Jack	1 x 12V/ 24V 2x5 pin DC-IN Power Jack
		1 x Power Switch with LED on Front Panel	1 x Power Switch with LED on Front Panel
	Quick Buttons	Brightness & Volume control	Brightness & Volume control

Power	Adapter	252W Power Adapter (ACE-D825A-H-RS)		252W Power Adapter (ACE-D825A-H-RS)	
	Input	12V/24V DC in		12V/24V DC in	
	Output	12VDC at 4.0A	12VDC at 4.2A	12VDC at 4.9A	12VDC at 5.3A
	Consumption	66W	64W	66W	81W

Construction	ABS + PC Plastic Front Frame Aluminum Alloy Chassis	ABS + PC Plastic Front Frame Aluminum Alloy Chassis
Color	Black	Black
Operation Temperature (˚C)	0~40˚C	0~40˚C
IP Level	IP64 (Front Panel)	IP64 (Front Panel)
Safety & EMI	CE / EMC / FCC / CB / UL	CE / EMC / FCC / CB / UL
Dimensions (WxHxD)	373 x 390 x 335 mm	408 x 414 x 350 mm
Net Weight	8.30 Kg	9.80 Kg

Fanless Fanless Fanless

1 Automation

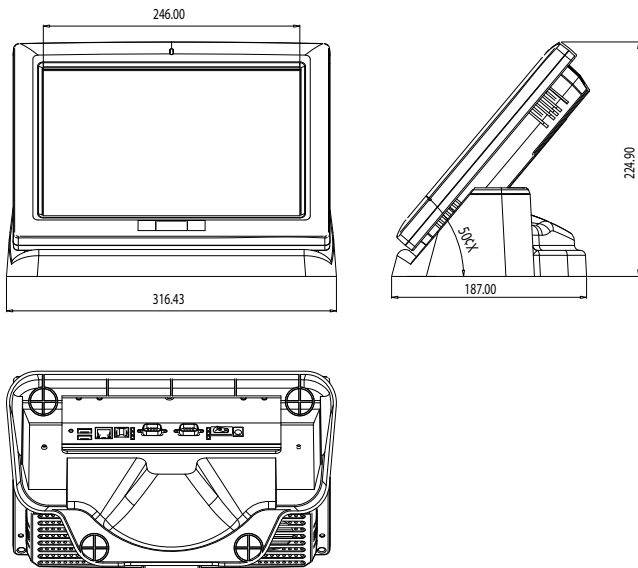2 Point of Service

3 Digital Signage

4 RISC-based Solutions

5 Medical Solutions

Dimensions

• AFL-12B-LXPOS

• AFL-15A-LXPOS
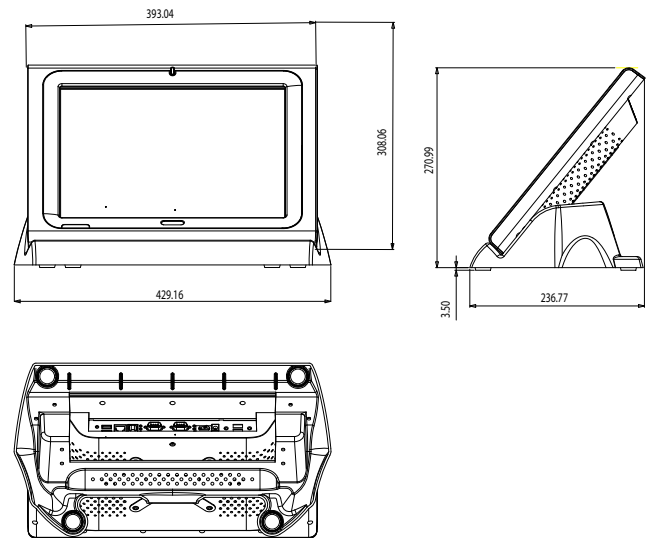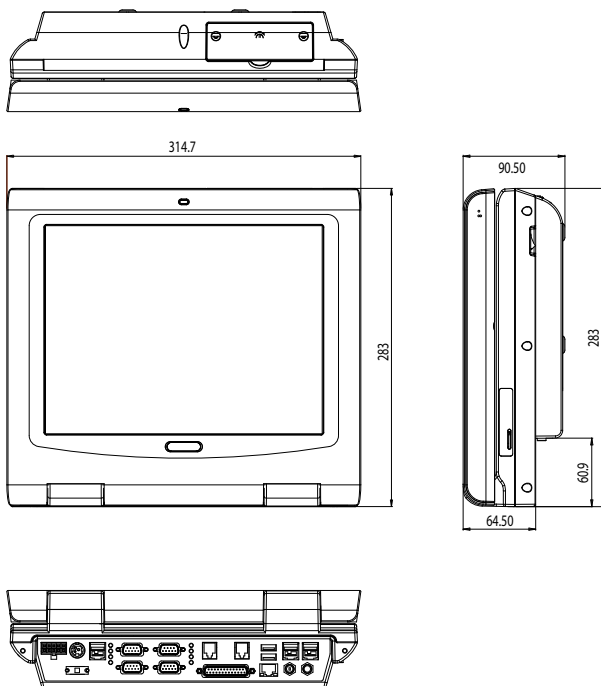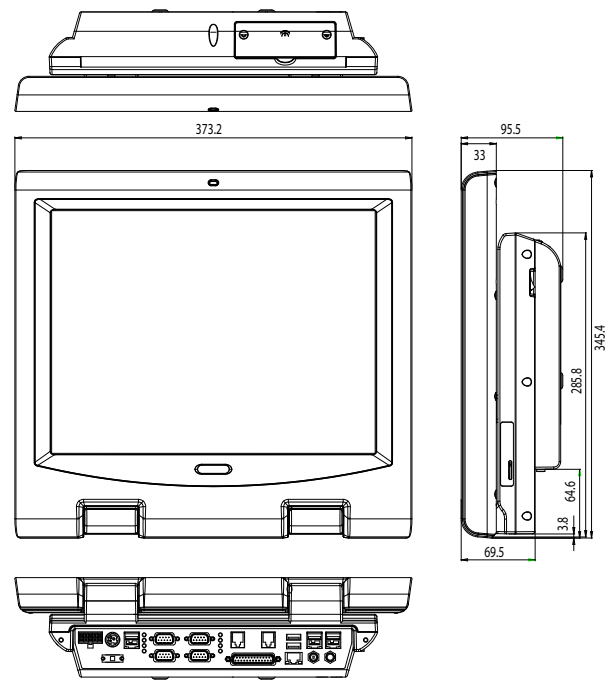

• EP-162

• EP-165

• EP-265
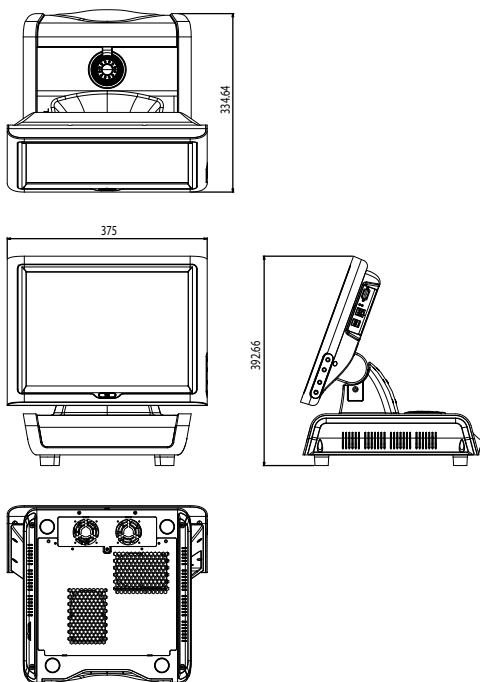
• EP-267
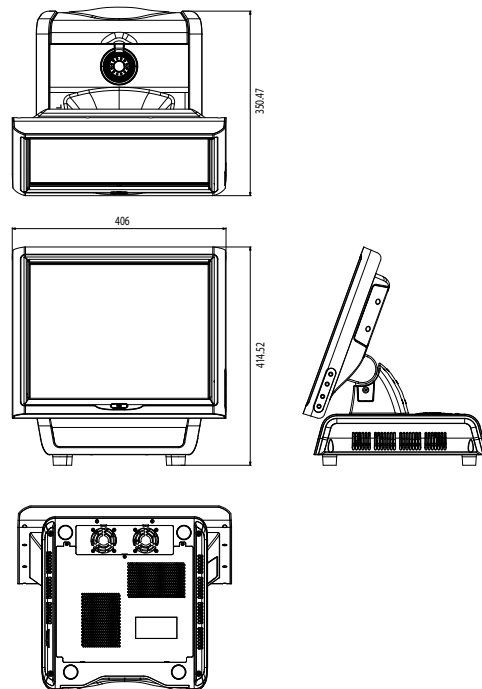
Optional Accessories

• IQ Mount

Wall Mount Kits AFLWK-12 (for AFL-12B-LXPOS)
AFLWK-19/19B (for AFL-15A-LXPOS & EP 162/165 POS)

• Panel Mount

AFLPK-12

AFLPK-15

• LCD Stand

Easy Stand

STAND-A12
(for AFL-12B-LXPOS)   STAND-A19
(for AFL-15A-LXPOS)   Forward & Back Tilt

Comfortable Stand

Portrait/Landscape

Height Adjustment(13 cm)

STAND-B19
(for AFL-15A-LXPOS)   Right/Left Pan (270°)   Forward & Back Tilt(+25°/-5°)

Desktop POS System *IBX-700/800/900 POS PC*

Optional built-in Wireless LAN

Mobile Dual Core

Performance Dual Core

Fanless

IBX-700

IBX-800

IBX-900

Service Automation   Point of Sales   Gaming   Mobile   Information Kiosk

Diverse business applications with IBX POS PC

IBX POS PC is the dedicated design computer for Point-of Service/Sales business. As the compact box solution, IBX POS can be easily integrated with peripherals and external devices in any business environment for any application

Wireless 802.11 b/g

Watchdog Timer

RS-232 (+5V/12V)

+12V Powered USB

iSMM
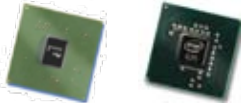
Feature

• Broad range of performance levels

• Full range I/O connectors comply with various peripherals & devices.

• LED indicators with powered COM ports

• Front drawing design chasse makes it easy for maintenance

• Ready-to-deploy solution once software are installed

• Industrial-grade design perfect for long hours working

IBX POS PC Overview

Fanless

Mobile Dual Core

Performance Dual Core

75 mm
300 mm
309 mm

85 mm
330 mm
309 mm

95 mm
350 mm
309 mm

	IBX-700		IBX-800	IBX-900
Dimensions	309 x 300 x 75 mm		309 x 330 x 85 mm	309 x 350 x 95 mm
Generation	Pentium® M		Mobile Core™2 Duo	Desktop Core™ Duo
FSB	400 MHz	533/400 MHZ	667/ 533 MHz	1333/ 1066/ 800 MHz
Architecture	Banias Socket 479	Dothan Socket 479	Yonah Socket M · Merom Socket M	Core™2 Duo Conroe Wolfdale · Quad Core Kentsfield Yorkfield
Memory	1GB memory equipped, support up to 2GB		1GB memory equipped, support up to 4GB	1GB memory equipped, support up to 4GB
Platform	910GMLE 915GM		945GM	945G · Q35

A POS

IBX-700 fanless design avoids the dusts or smoke from into the POS system in he restaurant and closed working environment.

B Kiosk

The book size IBX series IPC is easy to build inside the kiosk. The fanless IBX-700 is ideal for the closed kiosk stand with less thermal issue.

C Surveillance

PCIe 16x and PCIe 1x expansion slot for high performance graphic card and extra device.

Surveillance

High Speed PCIE 16X & PCIE 1X Expansion

1xPCIex16, 1xPCIex1,1 x PCI mini card

High performance graphic card expandable

1 Automation
2 Point of Service
3 Digital Signage
4 RISC-based Solutions
5 Medical Solutions

Feature 1   ## Comprehensive Connections

1
Automation

2
Point of Service

3
Digital Signage

4
RISC-based Solutions

5
Medical Solutions

IBX PC is extensible by the complete I/O and PCI/PCIe riser card which are compatible with several peripherals, such as thermal printer, barcode scanner, cash drawer, MSR card reader, etc.
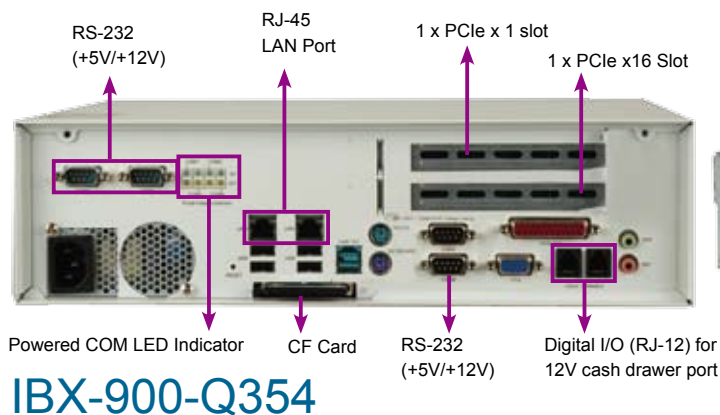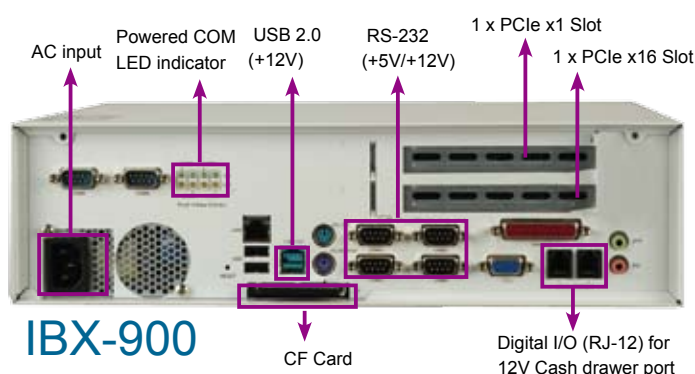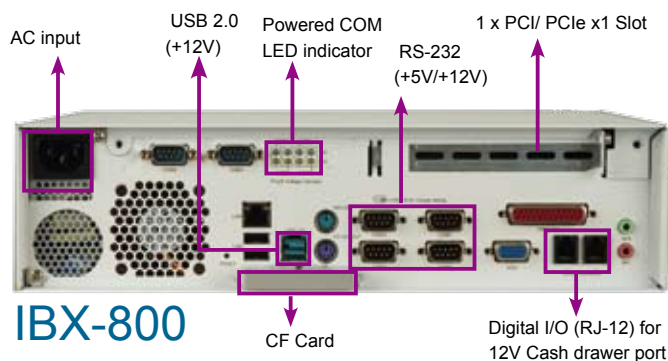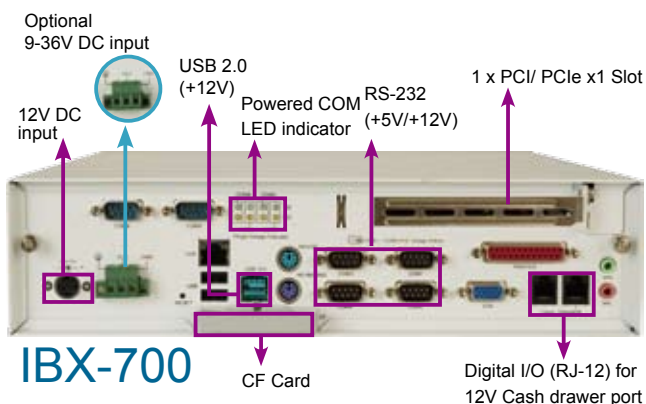
Model	Riser Card P/N	PCI	PCIe x 1	PCIe x 16	PCIe Mini Card
IBX-700	PCIR-700-R10	1	N/A	N/A	1 (for WiFi)
	PCIER-700-R10	N/A	1	N/A	1 (for WiFi)
IBX-800	PCIR-800-R10	1	N/A	N/A	1 (for WiFi)
	PCIER-800-R10	N/A	1	N/A	1 (for WiFi)
IBX-900	PCIER-900-R10	N/A	1	1	1 (for WiFi)

Optional 9-36V DC input

12V DC input   USB 2.0 (+12V)   Powered COM LED indicator   RS-232 (+5V/+12V)   1 x PCI/ PCIe x1 Slot

IBX-700

CF Card   Digital I/O (RJ-12) for 12V Cash drawer port

■ **IBX Expansion Bus Slot Card**

IBX-700

PCIR-700-R10:
1 x PCI, 1 x PCIe mini card

PCIER-700-R10:
1 x PCIe x 1, 1 x PCIe mini card

AC input   USB 2.0 (+12V)   Powered COM LED indicator   RS-232 (+5V/+12V)   1 x PCI/ PCIe x1 Slot

IBX-800

CF Card   Digital I/O (RJ-12) for 12V Cash drawer port

IBX-800

PCIR-800-R10:
1 x PCI, 1 x PCIe mini card

PCIER-800-R10:
1 x PCIe x 1, 1 x PCIe mini card

AC input   Powered COM LED indicator   USB 2.0 (+12V)   RS-232 (+5V/+12V)   1 x PCIe x1 Slot   1 x PCIe x16 Slot

IBX-900

CF Card   Digital I/O (RJ-12) for 12V Cash drawer port

IBX-900

PCIER-900-R10:
1 x PCIe x 1, 1 PCIe x 16,
1 x PCIe mini card

RS-232 (+5V/+12V)   RJ-45 LAN Port   1 x PCIe x 1 slot   1 x PCIe x16 Slot

Powered COM LED Indicator   CF Card   RS-232 (+5V/+12V)   Digital I/O (RJ-12) for 12V cash drawer port
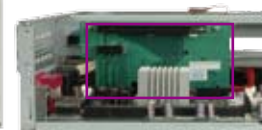
IBX-900-Q354

IBX-900-Q354

PCIER-900-R10:
1 x PCIe x 1, 1 PCIe x 16,
1 x PCIe mini card

Feature 2 Easy Maintenance

Front draw-out chassis designed for easy maintenance

For the convenience to maintenance, IBX POS PC introduces front drawing chassis and easy-to-fasten thumb screws.
Simply remove the screws on the rear and pull the front panel, it is easy for maintenance anytime anywhere.

STEP **1**

STEP **2**

Feature 3 Flexible Storage Support

2.5"/ 3.5" SATA Hard Drive

Slim Optical Drive

Rear-access CF card

RAID 0,1 functions
IBX POS PC supports flexible data storage, including data division (RAID 0) and data replication (RAID 1) function between two hard drive bays are equipped on IBX-700/800 (2.5" HDD) and IBX-900 (3.5" HDD).

DVD Combo
All IBX POS PC is equipped with space-saving slim DVD combo for software installation and data read/ write.

CF cover protection
Since POS is widely used in rugged business environment, the CF card is alternative device for operation system storage that avoids the crash resulting from the external vibration.

Feature 4 Ready for Mobility

IBX POS PC is ideal for mobile applications and services since it allows to integrate with WiFi module and supports 9-36V DC input.

Wireless Network Access
Integrated with 802.11 b/g WiFi module on PCIe mini card, IBX POS PC is not limited to fixed location and is suitable for mobile services and sales in hospitality, hospital and retail. The applications include medical cart, retail cart, etc.

9-36V DC power supply
IBX-700 offers optional 9-36V DC input. Factories and mobile environment such as cars and engineer vehicles usually use not only 12V but also 24V DC as power source. 9-36V power input solution could adapt more application requirements.

IDD-9364120A
Wide Input Range: 9-36V DC
Output: Max. 120W

1 Automation

2 **Point of Service**

3 Digital Signage

4 RISC-based Solutions

5 Medical Solutions

Specifications (IBX-700/800/900)

Fanless

Model No.	IBX-700-9103	IBX-700-9153	IBX-800-9452	IBX-900-9454	IBX-900-Q354
SBC	POS-9103	POS-9153	POS-9452	POS-9454	POS-Q354
CPU Options	Intel® ULV Celeron® M 1GHz / 512KB L2 cache Processor 373	Intel® Celeron® M 1.5GHz / 1MB L2 cache Processor 370	Intel® Core™ Duo 1.66GHz / 2MB L2 cache Processor T2300E	Intel® Celeron® D 3.2GHz/ 512KB L2 cache Processor 352 Intel® Pentium® 4 3.4GHz/ 2MB L2 cache Processor 651 Intel® Pentium® Dual-Core 1.8GHz/ 1MB L2 cache Processor E2160	Intel® Core™ 2 Duo 3.0GHz/ 6MB L2 cache Processor E8400
Chipset	Intel® 910GMLE+ ICH6-M	Intel® 915GM+ ICH6-M	Intel® 945GM+ ICH7-R	Intel®945G+ ICH7-R	Intel®Q35+ ICH9DO
Memory	built-in 1GB DDR2 memory system supports 2 x 240 pin Dual channel DDR2 400/533 MHz up to 2 GB		built-in 1GB DDR2 memory system supports 2 x 240 pin Dual channel DDR2 533/667MHz up to 4 GB	built-in 1GB DDR2 memory system supports 2 x 240 pin Dual channel DDR2 533/667/800MHz up to 4 GB	
Display	Integrated in Intel® 910GMLE	Integrated in Intel® 915GM	Integrated in Intel® 945GM	Integrated in Intel® 945G	Integrated in Intel® Q35
Extension Slot	Expandable with optional riser card PCIR-700: 1 x PCI, 1 x PCIe MiniCard PCIER-700: 1 x PCIe x 1, 1 x PCIe MiniCard		Expandable with optional riser card PCIR-800: 1 x PCI, 1 x PCIe MiniCard PCIER-800: 1 x PCIe x 1, 1 x PCIe MiniCard	Expandable with optional riser card PCIER-900: 1 x PCIe x 16, 1 x PCIe x 1, 1 x PCIe MiniCard	
HDD	built-in 1 x 80GB 2.5" SATA HDD supports upto 2 x 2.5" HDD			built-in 1 x 160GB 3.5" SATA HDD supports upto 2 x 3.5" HDD	
SSD	1 x CF Type II slot				

I/O		IBX-700-9103	IBX-700-9153	IBX-800-9452	IBX-900-9454	IBX-900-Q354
	LAN	1 x GbE with RJ-45			2 x GbE with RJ-45	
	USB	2 x USB 2.0 on front panel 2 x USB 2.0 on I/O panel			2 x USB 2.0 on front panel 4 x USB 2.0 on I/O panel	
	COM	2 x RS-232 (COM5/ COM6)			4 x RS-232	
	Powered COM	5V or 12V output from pin 9, with LED voltage indicator (COM1~COM4)				
	LPT	1 x DB-25				
	Powered USB	1 x 12V Powered USB				
	Cash Drawer Port (Digital I/O)	2 x RJ-12, 1DI/ 1DO with 12VDC output				
	Wireless	Expandable by BTO order with MOQ 802.11b/g with PIFA antenna, PCIe interface				
	KB/MS	1/1 PS2				
	Audio	1 x Line-out, 1 x Mic in				
ODD		1 x slim DVD Combo CD-RW 24x, DVD-ROM 8 x				
Operation Temperature		0℃~ 45℃				
Power Input		12V DC in with 63000-FSP0841ADC11118-RS 84W power adapter 9-36VDC in by IDD-9364120A DC-to-DC module		90V~264V AC in, with ACE-A615A 150W ATX power supply	90V~264V AC in, with ACE-A627A 270W ATX power supply	
Dimensions (WxDxH)		309 mm x 300 mm x 75 mm		309 mm x 330 mm x 85 mm	309 mm x 350 mm x 95 mm	
Net Weight		3.6 kgs		4.3 kgs	5.1 kgs	
EMC/ Safety		CE, FCC class B, UL, CCC		CE, FCC class B, UL, CCC	CE, FCC class B, UL, CCC	

● Packing List

1 x IBX POS PC	1 x Screw set
1 x Power adapter (for IBX-700 only)	1 x CF Card Slot Cover
1 x Power cord	1 x Utility CD
1 x DVD-ROM SATA cable	4 x Foot pad

Ordering Information

Model	Power	Chipset	Wireless	Expansion Slot	Part No. (With DVD)	Part No. (Without DVD)
IBX-700	90-264V AC	910GMLE	N/A	N/A	IBX-700D-9103-R10-WBOOC/CM373/1GB	IBX-700D-9103-R10-WBOOO/CM373/1GB
			802.11b/g	PCI	IBX-700D-9103-R10-WBIGC/CM373/1GB	IBX-700D-9103-R10-WBIGO/CM373/1GB
			802.11b/g	PCIe x1	IBX-700D-9103-R10-WBEGC/CM373/1GB	IBX-700D-9103-R10-WBEGO/CM373/1GB
		915GM	N/A	N/A	IBX-700D-9153-R10-WSOOC/CM370/1GB	IBX-700D-9153-R10-WSOOO/CM370/1GB
			802.11b/g	PCI	IBX-700D-9153-R10-WSIGC/CM370/1GB	IBX-700D-9153-R10-WSIGO/CM370/1GB
			802.11b/g	PCIe x1	IBX-700D-9153-R10-WSEGC/CM370/1GB	IBX-700D-9153-R10-WSEGO/CM370/1GB
	9-36V DC	910GMLE	N/A	N/A	IBX-700M-9103-R10-WBOOC/CM373/1GB	IBX-700M-9103-R10-WBOOO/CM373/1GB
			802.11b/g	PCI	IBX-700M-9103-R10-WBIGC/CM373/1GB	IBX-700M-9103-R10-WBIGO/CM373/1GB
			802.11b/g	PCIe x1	IBX-700M-9103-R10-WBEGC/CM373/1GB	IBX-700M-9103-R10-WBEGO/CM373/1GB
		915GM	N/A	N/A	IBX-700M-9153-R10-WSOOC/CM370/1GB	IBX-700M-9153-R10-WSOOO/CM370/1GB
			802.11b/g	PCI	IBX-700M-9153-R10-WSIGC/CM370/1GB	IBX-700M-9153-R10-WSIGO/CM370/1GB
			802.11b/g	PCIe x1	IBX-700M-9153-R10-WSEGC/CM370/1GB	IBX-700M-9153-R10-WSEGO/CM370/1GB
IBX-800	90-264V AC	945GM	N/A	N/A	IBX-800A-9452-R10-WSOOC/T2300E/1GB	IBX-800A-9452-R10-WSOOO/T2300E/1GB
			802.11b/g	PCI	IBX-800A-9452-R10-WSIGC/T2300E/1GB	IBX-800A-9452-R10-WSIGO/T2300E/1GB
			802.11b/g	PCIe x1	IBX-800A-9452-R10-WSEGC/T2300E/1GB	IBX-800A-9452-R10-WSEGO/T2300E/1GB
IBX-900	90-264V AC	945G	N/A	N/A	IBX-900A-9454-R10-WSOOC/CD352/1GB	IBX-900A-9454-R10-WSOOO/CD352/1GB
			802.11b/g	PCIe x 1 PCIe x16	IBX-900A-9454-R10-WSEGC/CD352/1GB	IBX-900A-9454-R10-WSEGO/CD352/1GB
			N/A	N/A	IBX-900A-9454-R10-WSOOC/P651/1GB	IBX-900A-9454-R10-WSOOO/P651/1GB
			802.11b/g	PCIe x 1 PCIe x16	IBX-900A-9454-R10-WSEGC/P651/1GB	IBX-900A-9454-R10-WSEGO/P651/1GB
			N/A	N/A	IBX-900A-9454-R10-WSOOC/E2160/1GB	IBX-900A-9454-R10-WSOOO/E2160/1GB
			802.11b/g	PCIe x 1 PCIe x16	IBX-900A-9454-R10-WSEGC/E2160/1GB	IBX-900A-9454-R10-WSEGO/E2160/1GB
		Q35	N/A	N/A	IBX-900A-Q354-R10-WSOOC/E8400/1GB	IBX-900A-Q354-R10-WSOOO/E8400/1GB
			802.11b/g	PCIe x 1 PCIe x16	IBX-900A-Q354-R10-WSEGC/E8400/1GB	IBX-900A-Q354-R10-WSEGO/E8400/1GB

Options

	Part No.	Description
IBX-700	IBXCF-P9103-XPE	Windows® XP Embedded OS image for IBX-700-9103, with 1GB CF card
	IBXCF-P9103-WEPOS	Windows® WEPOS OS image for IBX-700-9103, with 1GB CF card
	IBXCF-P9153-XPE	Windows® XP Embedded OS image for IBX-700-9153, with 1GB CF card
	IBXCF-P9153-WEPOS	Windows® WEPOS OS image for IBX-700-9153, with 1GB CF card
	PCIR-700-R10	Riser card for IBX-700 with one PCI and one PCIe mini card slot
	PCIER-700-R10	Riser card for IBX-700 with one PCIe x1 slot and one PCIe mini card slot
IBX-800	IBXCF-P9452-XPE	Windows® XP Embedded OS image for IBX-800-9452, with 1GB CF card
	IBXCF-P9452-WEPOS	Windows® WEPOS OS image for IBX-800-9452, with 1GB CF card
	PCIR-800-R10	Riser card for IBX-800 with one PCI slot and one PCIe mini card slot
	PCIER-800-R10	Riser card for IBX-800 with one PCIe x1 slot and one PCIe mini card slot
IBX-900	IBXCF-P9454-XPE	Windows® XP Embedded OS image for IBX-900-9454, with 1GB CF card
	IBXCF-P9454-WEPOS	Windows® WEPOS OS image for IBX-900-9454, with 1GB CF card
	IBXCF-Q354-XPE	Riser card for IBX-900 with one PCIe x16 slot, one PCIe x1 slot and one PCIe mini card slot
	IBXCF-Q354-WEPOS	Windows® WEPOS OS image for IBX-900-Q354, with 2GB CF card
	PCIER-900 -R10	Riser card for IBX-900 with one PCIe x16 slot, one PCIe x1 slot and one PCIE mini card slot

Naming Rule

IBX- [700] [M] [9103] [R10] [WBOOC] [CM373] [1GB] [80G]
       A   B   C   D   E   F   G   H

A: Design Code
700, 800, 900

B: Power input
A ~ AC in, D ~ 12VDC in, M ~ 9-36VDC in

C: SBC code

D: Revision number

E: Configuration code
1st letter - color
   W ~ white
2nd letter - CPU mounting
   S ~ socket, B ~ CPU onboard
3rd letter - riser card type
   O ~ without riser, I ~ PCI riser, E ~ PCIE riser
4th letter - wireless mode
   O ~ without wireless, N ~ 802.11b/g/n wireless, G ~ 802.11b/g wireless
5th letter - ODD type
   O ~ without ODD, C ~ DVD combo, D ~ DVD RW

F: CPU code

G: Memory capacity

H: Hard drive capacity

Optional Peripherals

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Automation

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Point of
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- **iSignager-LCD**

Model	EPP-16-ISIGNAGER-LCD-10-R10	
LCD	LCD Size	10.4"
	Max Resolution	800 x 600
	Brightness (cd/m2)	400
	Contrast Ratio	500:1
	LCD Color	16.2M
	Pixel Pitch (mm)	0.264 (H) x 0.264 (V)
	Viewing Angle (H-V)	120/100
	Backlight MTBF	50000 hours
I/O interface	Video In/ Audio In	1 x RCA for composite video in 1 x 3.5mm phone jack for audio in
	USB	1 x USB 2.0
	Ethernet	1 x 10/100mBase-T
	Wireless	802.11 b/g wireless
	Serial Port	1 x RS-232
	Audio out	built-in 2 x AMP 1.5W speaker 1 x 3.5mm audio phone jack
Power	Input Voltage	12VDC in
	Power adapter	60W ACDC Power Adapter 90VAC~240VAC @50~60Hz input
	Consumption	27W

- **AFOLUX Monitor**

Model	EPP-16-AFL-08M / EPP-26-AFL-08M	EPP-16-AFL-10M / EPP-26-AFL-10M
LCD Size	8.4"	10.4"
Max Resolution	800 x 600	800 x 600
Brightness (cd/m2)	450	400
Contrast Ratio	500:1	500:1
LCD Color	262K	16.2M
Pixel Pitch (mm)	0.213 (H) x 0.213 (V)	0.264 (H) x 0.264 (V)
Viewing Angle (H-V)	120/100	120/100
Backlight MTBF	50000	50000
Input Video Signal Connector	1. Composite (NTSC/ PAL) 2. YPbPr 3. S-Video 4. VGA	
Audio In	AMP 1.5W + AMP 1.5W (internal speaker)	
Extension	IR Sensor (Remote Control)	
Construction Front Panel	ABS and PC Plastic front frame	
Construction Chassis	Aluminum Chassis	
Power adapter	36W	
On Screen Display (OSD)	Remote Control for OSD Functions	
User's Control	Image (Brightness, Contrast, Sharpness) Display (Auto Adjust, Phase, Clock, Display Control) PIP (PIP On/Off, PIP Input Select, PIP Size, PIP Color Contrast, Blend) Color (Auto Color, Color Temperature, sRGB) System (Audio, Factory Reset, Information, Input Select, Misc)	
Mounting	Wall Mounting (VESA 75 x 75 mm)	
Operation Temparature	0ºC~50ºC	0ºC~50ºC
Dimension (WxLxD)	233.86 x 183.86 x 41.09 mm	276 x 227 x 50.7 mm
Net Weight	1.14 KG	1.33 KG
Front Panel Protection	IP64 Compliant	
EMC/Safety	CE, FCC, UL, CCC	

• Magnetic Card Reader

P/N	Description
AFLP-12BMSR-U	Magnetic card reader for AFL-12B-LXPOS
AFLP-17AMSR-U	Magnetic card reader, for AFL-15A-LXPOS
EPP-16MSR-U	Magnetic card reader for EP-162/165 POS
EPP-26MSR-U	Magnetic card reader for EP-265/267 POS

- 90mm Magnetic Strip Reader
- Read track: ISO 1,2 , 3 (IATA, ABA, THRIFT.MINTS)
- Card Standard: ANSI, ISO, ABA
- Power Requirement: +5VDC +/- 5%
- Reading Indicator: Beeper
- Operating Temperature: 0 - 40 degree C
- Relative Humidity: 20% to 85% (Non-Condensing)
- Cable Straight 5ft.
- Interface: USB

• Smart Card Reader

P/N	Description
AFLP-12BMSI-U	Smart card reader for AFL-12B-LXPOS
AFLP-17AMSI-U	Smart card reader for AFL-15A-LXPOS
EPP-16MSI-U	Smart card reader for EP-162/165 POS
EPP-26MSI-U	Smart card reader for EP-265/267 POS

- Magnetic Card: ISO 7811, AAMVA, DMV, JIS-II
- Smart Card: ISO 7816, EMV
- Power Requirement: +5VDC +/- 5%
- Reading Indicator: Beeper
- Operating Temperature: -10 - 55 degree C
- Relative Humidity: 10% to 90% (Non-Condensing)
- Cable Straight 5ft.
- Interface: USB

• Barcode Reader

Scan Performance	Depth of Scan Field	0 -140 mm (0"-5.5") for 0.33mm (13mil) bar codes
	Width of Scan Field	49mm (1.9") @ face; 195mm (7.7") @140mm (5.5")
	Scan Speed	72 scan lines per second
	Scan Pattern	Single scan line
	Minimum Bar Width	0.102 mm (4 mil)
	Print Contrast	35% minimum reflectance difference
	Roll, Pitch, Yaw	42°, 68°, 52°
Mechanical	Length	169 mm (6.7")
	Weight (w/o Cable)	97g (3.41 oz)
	Termination	10 pin modular RJ-45
	Cable	Standard 1.5m straight; optional 2.7m coiled
Electrical	Input Voltage	+5V DC +0.25V
	Power	675mW
	Operating Current	135mA@ 5VDC
	System Interface	USB

P/N	Description
AFLP-BRW01-U	Single-line, hand-held laser scanner, white color
AFLP-BRB01-U	Single-line, hand-held laser scanner, black color

• Cash Drawer

Drawer	Heavy duty metal drawer with keylock
Casing	Robust metal construction
Front Panel	Robust metal construction
Lock	3 Position
Bill Tray	Separate coin tray removable from the bill tray. Adjustable dividers for four or five compartments
Coin Tray	Separate coin tray removable from the bill tray. Adjustable dividers for up to eight compartments
Slip Deposit Slot	Front access slot for check, credit card receipt, or any paper
I/O interface	6-pin RJ-12 phone jack for EPSON printer compatible
Solenoid	12V for 6 pin RJ-12 phone jack interface
Dimensions (WxLxH)	410 x 415 x 100 mm
Net Weight	6.8 KGs

P/N	Description
AFLP-CW01-12V	Cash Drawer, 12V DC input, 6-pin RJ-12 phone jack, white color
AFLP-CB01-12V	Cash Drawer, 12V DC input, 6-pin RJ-12 phone jack, black color

1 Automation

2 *Point of Service*

3 Digital Signage

4 RISC-based Solutions

5 Medical Solutions

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Multi-language support, including USA, France, Germany, UK, Sweden, Denmark I & II, Italy, Spain, Norway, Japan (Kayakana), Slavonic, Russian, etc….

• Customer Display

Display	Vacuum Fluorescent Display Green
Display Pattern	5 x 7 dot matrix
Brightness	350- 700 cd/m2
Character	95 Alphanumeric & 32 International Characters
Dot Size (X x Y)	0.86 mm X 1.2 mm
Font Size	5.25 (W) x 9.3 (H)
Character Number	20 x 2 for 5 x 7 font
Command	LD-220, EPSON POS D101, Aedex, UTC/S, UTC/P, ADM788, DSP800, CD5220, EMAX, LOGIC CONTROL
Dimension (Panel)	220 X 50 x 86 mm
Dimension (Support)	Two supports per package. Per support 130mm
Dimension (Base)	217 x 106 x 20 mm
Viewing Angle	Max 90°
Horizontal Rotation	Max 360°
Interface	USB
Power Source	+5V DC

P/N	Description
AFLP-CDW01	Customer Display, VFD, 5 x7 dot matrix, RS232, white color
AFLP-CDB01	Customer Display, VFD, 5 x7 dot matrix, RS232, black color

• VFD Customer Display

Display	Vacuum Fluorescent Display Green
Display Pattern	5 x 7 dot matrix
Brightness	350- 700 cd/m2
Character	96 Alphanumeric & 13 International Characters 1 user define character
Character Size (X x Y)	9.0 mm x 5.25 mm
Font Size	5.25 (W) x 9.3 (H)
Character Number	40 characters (20 columns x 2 lines)
MTBF	25000 hours (power on time)
Dimension (Panel)	215 X 84 x 55 mm
Operating Temperature	5- 45 °C
Operating Humidity	30% - 85%
Storage Temperature	-10- 55°C
Storage Humidity	10% - 85%
Power Source	+5V DC
Power Consumption	3-6 W

P/N	Description
AFLP-12VFD-U	VFD Customer Display for AFL-12B-LXPOS with bracket
AFLP-15VFD-U	VFD Customer Display for AFL-15A-LXPOS with bracket
EPP-16VFD-U	VFD Customer Display for EP-16x series with bracket
EPP-26VFD-U	VFD Customer Display for EP-26x series with pole stand

• Thermal Printer

Print Method	Direct thermal line printing
Casing	9x17/ 12x24 64/48 Columns 95 Alphanumeric; 32 Interenation; 128x7 graphics Traditiona/ Simplified Chinese, Japanese UPC-A, UPC-E, JAN8 (EAN8), JAN (EAN13), CODE 39, CODE 93, CODE 128, CODABAR
Print Speed	180mm/ sec (60 lps) max
Data Buffer	96 Kbytes or 2k bytes
Interface	RS 232C (32K)
Paper Dimensions	Thermal roll paper: 79.5 +/-0.5 x dia 83.0 mm
Paper Thickness	0.06 to 0.12 mm
Power	24VDC +/-7%
Current Consumption	Approx 2.0A (mean)
Overall Dimensions	146 (W) x 197(D) x 145 (H) mm
Power Adapter	Input 100-240V AC, Output 24VDC, 60W max.

P/N	Description
AFLP-TPW01	Thermal Printer, 24VDC, RS232, thermal line printing, white color
AFLP-TPB01	Thermal Printer, 24VDC, RS232, thermal line printing, black color

Ordering Information

	Part No.	Description	Remark
EP-308 Series	EP-308A-N270/T-R/1GB-R10	8" 300cd/m2 POS PC with Intel® Atom™ N270 1.6GHz, 1GB DDR2 RAM, 10/100Base-T Ethernet, built-in 2" easy loading thermal printer with auto cutter, touch screen, RoHS	X
AFOLUX POS (LX) Series	AFL-12BS-LXPOS/WT-R/256MB	12.1" 350cd/m² SVGA fanless PPC with AMD Geode LX 800 CPU,256MB DDR RAM,802.11 b/g wireless module and touch screen,without STAND,RoHS	X
	AFL-12BX-LXPOS/WT-R/256MB	12.1" 450cd/m² XGA fanless PPC with AMD Geode LX 800 CPU,256MB DDR RAM,802.11 b/g wireless module and touch screen,without STAND,RoHS	X
	AFL-15A-LXPOS/WT-R/256MB	15" 350cd/m² XGA fanless PPC with AMD Geode LX 800 CPU,256MB DDR RAM,802.11 b/g wireless module and touch screen,without STAND,RoHS	X
	AFL-15AE-LXPOS/WT-R/256MB-R10	15" 250cd/m² XGA fanless PPC with AMD Geode LX 800 CPU,256MB DDR RAM,802.11 b/g wireless module and touch screen,without STAND,RoHS	X
EP-162 Series	EP-162-910-10G/WT-R/1GB	12.1" 400cd/m² XGA POS PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-162-945-CM440/WT-R/1GB	12.1" 400cd/m² XGA POS PC with Celeron® M 440 1.86GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-162-945-T2300E/WT-R/1GB	12.1" 400cd/m² XGA POS PC with Core™ Duo T2300E 1.66GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
EP-165 Series	EP-165-910-10G/WT-R/1GB	15" 350cd/m² XGA POS PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-165E-910-10G/WT-R/1GB-R10	15" 250cd/m²; XGA POS PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-165-945-CM440/WT-R/1GB	15" 350cd/m² XGA POS PC with Celeron® M 440 1.86GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-165E-945-CM440/WT-R/1GB-R10	15" 250cd/m² XGA POS PC with Celeron® M 440 1.86GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-165-945-T2300E/WT-R/1GB	15" 350cd/m2 XGA POS PC with Core™ Duo T2300E 1.66GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
	EP-165E-945-T2300E/WT-R/1GB-R10	15" 250cd/m² XGA POS PC with Core™ Duo T2300E 1.66GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g wireless module, touch screen, RoHS	Stand included in package
EP-265 Series	EP-265-910-10G/WT-R/1GB	15" 350cd/m² XGA POS PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, RoHS	Stand included in package
	EP-26E5-910-10G/WT-R/1GB-R10	15" 250cd/m² XGA POS PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, RoHS	Stand included in package
	EP-265-GM45-C575/WT-R/1GB-R10	15" 350cd/m² XGA POS PC with Celeron 2.0GHz 1MB cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, RoHS	Stand included in package
	EP-265E-GM45-C575/WT-R/1GB-R10	15" 250cd/m² XGA POS PC with Celeron 2.0GHz 1MB cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, RoHS	Stand included in package
EP-267 Series	EP-267-910-10G/WT-R/1GB	17" 300cd/m² SXGA POS PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, RoHS	Stand included in package
	EP-267-GM45-C575/WT-R/1GB-R10	17" 300cd/m² XGA POS PC with Celeron 2.0GHz 1MB cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, RoHS	Stand included in package

Options

	EP-308A	AFL-12B-LXPOS	AFL-15A-LXPOS	EP-162-910	EP-162-945	EP-165-910	EP-165-945	EP-265-910	EP-265-GM45	EP-267-910	EP-267-GM45
POS Stand	--	STAND-POS12	STAND-POS15	-----				-----			
LCD Stand	--	STAND-A12	STAND-A19/ STAND-B19	-----				-----			
Wall Mount Kit	--			AFLWK-19/ AFLWK-19B							
Panel Mount Kit	--	AFLWK-12	AFLWK-15	-----				-----			
iSignager-LCD (10.4")	--	-----	-----	EPP-16-ISIGNAGER-LCD-10-R10				EPP-26-ISIGNAGER-LCD-10-R10			
AFOLUX Monitor (8.4")	--	-----	-----	EPP-16-AFL-08M				EPP-26-AFL-08M			
AFOLUX Monitor (10.4")	--	-----	-----	EPP-16-AFL-10M				EPP-26-AFL-10M			
Magnetic Card Reader	--	AFLP-12BMSR-U	AFLP-17AMSR-U	EPP-16MSR-U				EPP-26MSR-U			
Smart Card Reader	--	AFLP-12BMSI-U	AFLP-17AMSI-U	EPP-16MSI-U				EPP-26MSI-U			
Barcode Reader	AFLP-BRW01-U (White color) / AFLP-BRB01-U (Black color)										
Cash Drawer	AFLP-CW01-12V (White color) / AFLP-CB01-12V (Black color)										
Customer Display	AFL-CDW01 (White color)/ AFL-CDB01 (Black color)										
VFD Customer Display	--	AFLP-12VFD-U	AFLP-15VFD-U	EPP-16VFD-U				EPP-26VFD-U			
Thermal Printer	--	AFLP-TPW01 (White color) / AFLP-TPB01 (Black color)									
OS: Windows® CE 5.0	--	AFLCF-12-LXPOS-CE (128MB CF card)	AFLCF-15-LXPOS-CE (128MB CF card)	EPCF-12-P910-CE (128MB CF card)	EPCF-12-P945-CE (128MB CF card)	EPCF-15-P910-CE (128MB CF card)	EPCF-15-P945-CE (128MB CF card)	-----	-----	-----	-----
OS: Windows® CE 6.0	--	AFLCF-12-LXPOS-CE060 (128MB CF card)	AFLCF-15-LXPOS-CE060 (128MB CF card)	-----	-----	-----	-----	-----	-----	-----	-----
OS: Windows® XPE	EPCF-08-N270-XPE (1GB CF card)	AFLCF-12-LXPOS-XPE (1GB CF card)	AFLCF-15-LXPOS-XPE (1GB CF card)	EPCF-12-P910-XPE (1GB CF card)	EPCF-12-P945-XPE (1GB CF card)	EPCF-15-P910-XPE (1GB CF card)	EPCF-15-P945-XPE (1GB CF card)	EPCF-265-P910-XPE	EPCF-265-GM45-XPE	EPCF-267-P910-XPE	EPCF-267-GM45-XPE
OS: Windows® WEPOS	EPCF-08-N270-WEPOS (1GB CF card)	-----	-----	EPCF-12-P910-WEPOS (1GB CF card)	EPCF-12-P945-WEPOS (1GB CF card)	EPCF-15-P910-WEPOS (1GB CF card)	EPCF-15-P945-WEPOS (1GB CF card)	EPCF-265-P910-WEPOS	EPCF-265-GM45-WEPOS	EPCF-267-P910-WEPOS	EPCF-267-GM45-WEPOS