

### ACT-08A

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Specifications

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## All-in-One Access Control Terminal



All-in-One Access Control Terminal

ACT-08A

8.4" SVGA Intelligent Access Control Terminal

The advanced, easy-to-use ACT-08A fanless touch-screen panel PC all-in-one control terminal reads both MIFARE and EM tags and transponders. The fanless ACT-08A panel PC are built on low-power, low-heat x86 Intel® 910GMLE or VIA CX700M chipsets. The x86 ACT-08A panel PC are more flexible than the traditional RISC-based control terminals. The x86 architecture enables system developers to integrate sophisticated time attendance, access control and/or prepaid card software on the ACT-08A for implementation in the following areas:

- · Door Access
- Time Attendance
- Cashless payment for vehicle, ticket, membership club, photocopying, dining, laundry...etc.
- Parking Access control



#### Features

 8.4" TFT-LCD with Resistive Touch Screen
 8.4" SVGA (800x 600) 400 nits high brightness LCD monitor with robust 4-wire resistive touch screen emables the most convenient access and

- Fanless 1.0 GHz Intel® Celeron® M processor with 512 KB L2 cache or 1.0 GHz ULV VIA Eden processor
- . Integrated RFID Reader in front of the Panel For MIFARE 13.56 MHz or EM 125 KHz RFID tag
- 300K pixel Camera up to VGA resolution (640 x 480)
- Built-in microphone
- Wireless Connection 802.11 b/g wireless LAN Module (internal PCIe mini card interface)
- One CF Type II Slot
- Bluetooth Connectivity
- Mounting Panel, Wall, Stand and Arm mounting Compliance (VESA 75 mm x 75 mm)









#### All-in-One Ready to Run

The x86 ACT-08A all-in-one panel PC with Windows CE and Windows XPE operating systems is easily integrated with data intensive applications including voice recognition, face recognition etc. The ACT-08A with an 8.4" touch panel is a complete turnkey solution that comes with an RFID reader digital camera, microphone, two speakers, built-in Wi-Fi and Bluetooth module.

#### Fanless

The fanless ACT-08A systems have less downtime and extended operational lives as they are not susceptible to overheating problems caused by fan failures.

#### Rugged Design

The rugged ACT-08A systems combine IP 64 compliant front panels with anti-shock and anti-vibration shields to ensure the system is secured against vandalism and protected against extreme environmental



### **Programmable RFID Support**

IEI provides specific RFID software utility configuration instructions including how to:
• Read from the MIFARE card

- Write to the MIFARE card
   Set MIFARE card reader
- parameters
- Read MIFARE card reader . Set card reader type detection



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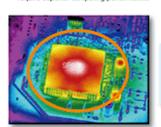
# Complete Solutions for You

# **A.** ACT-08A-9103

### ▶8.4" SVGA High Performance **Access Control Terminal**

### **Embedded High Computing Performance**

The slim Intel® 910GMLE powered ACT-08A-9103 is a high performance, low-power information access control terminal. The ACT-08A-9103 is ideal for processing-intensive applications that require superior computing performance



With low power consumption benefit. BGA type enhances thermal performance and system stabilities significantly.

(intel)

Processor	Intel® Celeron® M 1.0 GHz/ 512k Cache
Chipset	Intel® 910GMLE
Memory	one 200-pin 2GB (maximum) DDR2 SO-DIMM

# B. ACT-08A-CX2

# ▶8.4" SVGA Multimedia Enjoyment

### Access Control Terminal

Flawless digital media playback with ultra-low CPU-utilization

A VIA CX700M chipset is embedded in the ACT-08A-CX2. The VIA UniChrome™ Pro II graphic core in the VIA CX700M supports popular digital video and audio formats.

The graphic core employs a multi-faceted approach to displaying multimedia content, implementing a number of advanced tools at every stage of video processing. These include integrated MPEG-2, MPEG-4, and WMV9 decoding, for flawless digital video playback with ultra-low CPU-utilization.

Lagged image with Higher CPU usage

With Hardware Decoder . Good image quality with Lower CPU usage

XIX

CX700N



Processor	VIA Eden 1 GHz ULV
Chipset	VIA CX700M
Memory	one 200-pin 1GB (maximum) DDR2 SO-DIMM

# Expand the Opportunities with RFID

The latest RFID identification reader enables the ACT-08A to be integrated into applications with sophisticated automated identification requirements.

### Diagram of ACT-08A with RFID

The RFID chip communicates with the reader through RFID induction technology . These tags require close proximity to an antenna to complete a transaction. They are often used when transactions must be processed quickly or hands-free.



FID tags come in a wide variet shapes and sizes: Plastic/pap ard, Key Fobs, ABS/PVC Tag. ear tag.,etc, assist to expand n



ACT-08A RFID Reader

Compatible with EM and MIFARE!



Built-in RFID Module

The RFID tag reader is fully protected in a very low-profile enclosure in the front of the ACT-08A to identify objects using radio-frequency communication techniques and easily for sensor the common smart cards: MIFARE/EM card.

### **RFID Card Categories**

	MIFARE Card	EM Card	
Effective Sensing Distance	5cm (max)	10cm (max)	
Frequency Band	13.56 MHz	125 KHz	
Applications	MIFARE Card with 1.0 kByte of memory ideal for more secure applications such as parking, vending and employer cards or as a stored value card.	Ideal for storage id information etc. Student identification, electronic passport, vending, parking and tolls are common applications for contact-less cards.	

### Advantages

- Non-contact
- . Non-line-of-sight nature of the technology

### RFID systems are distinguished by frequency ranges

RFID Category	Frequency band	Benefits	Drawbacks	
LF	< 135 MHz	Works well around water and metal	Short read range     Slower read rate	
HF	13.56 MHz	Low cost	Higher read rate than LF	
UHF	860 MHz to 930 MHz	EPC standard built around this frequency	Does not work with items of high water or metal content	

<sup>\*</sup> Operating range depends on reader power and operating environment

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## Multi-Device Application Possibilities

### ▶ Identification

The ACT-08A integrates the RFID reader in the front panel making the ACT-08A ideal for digital identification applications.

### Library RFID Management System



### Membership Management



### School Student Attendance Monitoring



### ▶ Commercial Transaction

The ACT-08A all-in-one access control terminal is easily integrated into automated payment systems integrated at self-service gas stations, in vending machines or at cashier terminals in stores. The ACT-08A also facilitates pre-paying household utilities, paying parking meters etc.

### Digital signage and payment system Transportation Payment System





### Vending Machine



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# Parking Lot Entrance Control



# Access Control Door System

The two-in-one EMMIFARE compliant RFID reader installed in the ACT-08A x86 based panel PC supports sophisticated security applications. Advanced third-party voice and face recognition software can be integrated with the embedded camera and microphone to enable the development of complete security systems to protect restricted environments in banks, government buildings and other sensitive areas.



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# Healthcare Solutions

The ACT-08A with Radio Frequency Identification (RFID) technology applied in patient care in hospitals and healthcare facilities can identify and track patients, objects, and assets, and speeds up or eliminates many manual operations in checking and processing patients.



Medication Tracking System
 Monitoring the entire flow of medication use, from shipment to administration helps prevent medical mistakes

Asset Tracking
 Attaching an RFID tag to each piece
 of equipment and strategically locating
 ACT-08A readers throughout the area of
 operations where the hardware is used.





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## Specifications

Model ACT-08A-9103 ACT-08A-CX2

LCD 8.4"

Max Resolution 800 x 600

Brightness 400 (cd/m2)

Contrast Ratio 500:1

LCD Color 262K

Pixel Pitch (mm) 0.213(H) x 0.213(V)

Viewing Angle 120° / 100° (H-V)

Backlight MTBF 50000 hrs

SBC Model AFLMB-9103-R10 AFLMB-CX2-R10

Intel®Celeron®M processor CPU VIA EDEN 1GHz ULV (1.0GHz) with 512KB L2 Cache

Chipset Intel® 910GMLE CX700M

RAM One DDRII SO-DIMM Up to 2GB One DDRII SO-DIMM Up to 1GB

> 1 x RS-232 COM Port 1 x RS-232/422/485 COM Port

1 x Giga LAN I/O Ports and 4 x USB 2.0 **Switches** 1 x External SATA 1 x Power Switch 1 x Reset Button

1 x Power Jack

Construction ABS + PC Plastic front frame **Front Panel** 

Construction Aluminum Chassis Chassis

Power Adapter 60W Power Adapter 48W Power Adapter

LED Function 1 x LED on Front Panel for Power ON/OFF

Mounting Panel, Wall, Stand or Arm mounting, VESA 75mm x 75mm

Color Blue and White

Dimensions 251.72 mm x 244.69 mm x 53.3 mm (WxHxD) (mm)

0~45°C Operation

Temperature (°C)

N/G Weight

1.1 kg

IP Level

IP 64

Safety & EMC

CE / EMC / FCC / CB / CCC

Power Consumption

48W

38W

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# **Ordering informations**

### Part No.

### **Description**

ACT-08A-CX2-E10G/WT-R/512MB

8.4" 400cd/m² SVGA fanless panel PC with VIA Eden 1GHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, MIFARE & EM RFID module, touch screen, bluetooth, RoHS

ACT-08A-9103-10G/WT-R/1GB 8.4" 400cd/m<sup>2</sup> SVGA fanless panel PC with Celeron® 1GHz 512KB cache CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, MIFARE & EM RFID module, touch screen, bluetooth, RoHS

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# Options

Model ACT-08A-CX2 ACT-08A-9103

Panel Mounting Kit AFLPK-08

Wall Mounting Kit AFLWK-12

ARM-11-RS / ARM-31-RS ARM

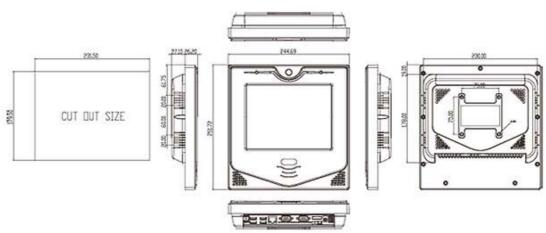
STAND-B08/STAND-100-RS/STAND-150-RS **STAND** 

Win CE 5.0 AFLCF-08-CX2-CE AFLCF-08-9103-CE Win CE 6.0 OS AFLCF-08-CX2-CE060 AFLCF08-9103-CE060

Win XPE AFLCF-08-CX2-XPE AFLCF-08-9103-XPE

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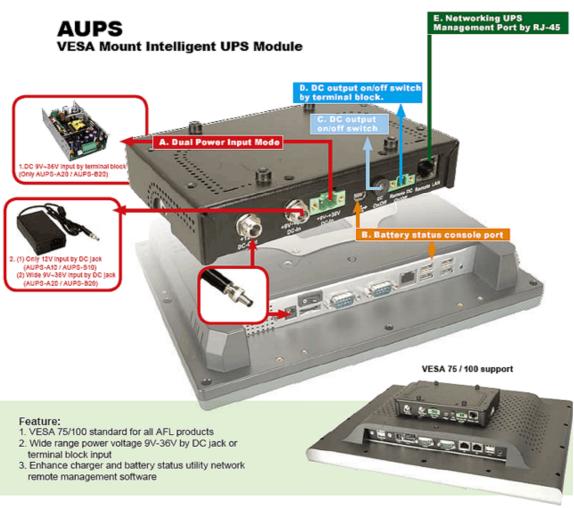
## **Dimensions**

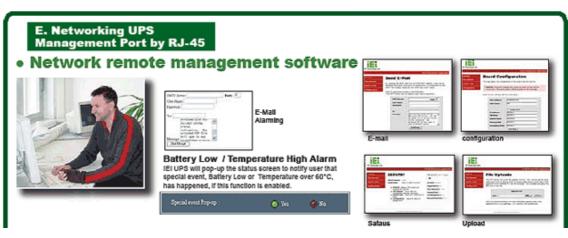


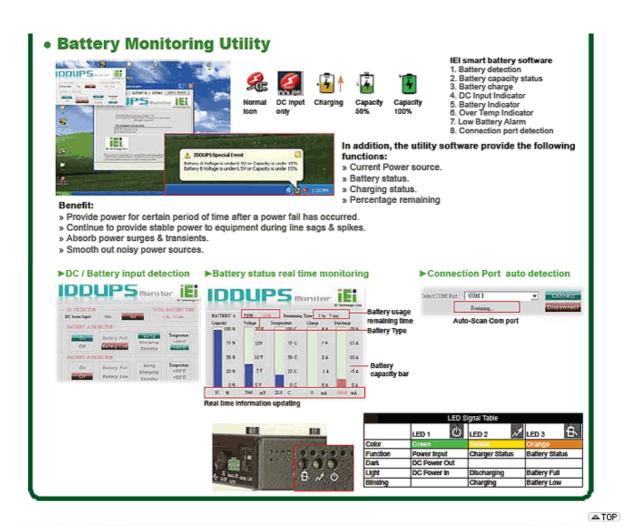
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# Optional VESA Mount DC UPS Module







# Specifications

VESA Type		VESA 75		VESA 100	
Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
Output	Voltage	+12V +/-5%	+12V +/-5%	+12V +/-5%	+12V +/-5%
	Output Power	60W	60W	100W	100W
Input	Voltage	+12V	+9V~+36V	+12V	+9V~+36V
Battery	Таре	Li-lon 2S2P	Li-lon 2S2P	Li-lon 4S2P	Li-lon 4S2P
	Normal Voltage	7.4V 3800mAH	7.4V 3800mAH	14.8V 3800mAH	14.8V 3800mAH
	Backup	60W/10Min	60W/10Min	100W/10Min	100W/10Min
Physical	Dimensions	150mm(L) * 95mm(W)*34mm (H)	150mm(L) * 95mm(W)*34mm (H)	170mm(L) * 150mm(W) *34mm(H)	170mm(L) * 150mm(W) *34mm(H)
	Weight	1.2kg	1.2kg	1.8kg	1.8kg
	Green	DC power input	DC power input	DC power input	DC power input
LED Indicator	Yellow	Battery charging	Battery charging	Battery charging	Battery charging
	Orange	Bettery discharging	Bettery discharging	Bettery discharging	Bettery discharging
Environment	Operating Tem.	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C
	Storage				

Tem.  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$   $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$   $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$   $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ 

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# Ordering informations

Part No.	Description
AUPS-A10-R10	VESA 75, DC 12V input 60W UPS module with 3800mAH, 2S2P Li-Ion battery
AUPS-A20-R10	VESA 75, DC 9~36V input 60W UPS module with 3800mAH, 2S2P Li-Ion battery
AUPS-B10-R10	VESA 100, DC 12V input 100W UPS module with 3800mAH, 4S4P Li-Ion battery
AUPS-B20-R10	VESA 100, DC 9~36V input 100W UPS module with 3800mAH, 4S4P Li-Ion battery

NOTE: AUPS-A10/ A20 for ACT-08A use

# **Packing List**

1 x DC jack cable

1 x USB cable

1 x screw kit

Taiwan America China

IEI Technology Corp. IEI Technology USA Corp. Armorlink SH Corp.

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