IOVU series PPC



IOVU (Input and Output Viewer) series enables the great embedded flexibility for RISC-based panel PC. Built with a XScale or Alchemy CPU, LCD display, touch screen, I/O peripherals, and pre-installed Windows® CE 5.0 or embedded Linux, the IOVU series provides the most cost-effective and stable solution for a diverse range of embedded RISC-based panel PC application. The supported software includes thin client technology, remote management tool, embedded OS SDK (software development kit) and BSP (board support package).

and embedded system hardware design without failure-prone hard disk and fan. Each IOVU equips with a IP 65 or IP 64 compliant front panel to protect against accidental contacts of foreign bodies and against water.

►►Each IOVU is driven by an powerful RISC CPU with built-in WDT (Watchdog Timer) functions, has a touch screen TFT display, and comes with a series of integrated external peripheral connectors including Ethernet ports, Sorial ports, USB ports, Audio ports, CompactFlash™ slot, and optional wireless communication modules supporting WiFi 802.11 b/g, Bluetooth, GPS, or GSM/GPRS

Applications

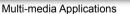


Industrial Automation



Building Automation







Vehicle PC

Windows CE 5.0



Power Monitoring, Power Demand Controller and Report Generator

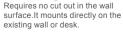
Diversified Mounting Support and Rigorous Environmental Test

IOVU series panel PC have several mounting holes compliant with the VESA mounting standard (VESA 75 / 100) on the rear panel for stand mounting and other mounting methods.

Wall Mount







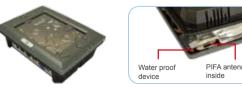
Panel Mount



Requires a cut out in the wall surface. With four clamps to tighten the screws that pass through the panel mounting

IP64 / 65 dustproof and waterproof front panel

The IOVU front panel is IP64 / IP65 compliant. IP64 / 65 compliance guarantees the front panel is dustproof and water-proof. The IOVU front panel can withstand any industrial environment where dust and drizzle is encountered.



Rugged design



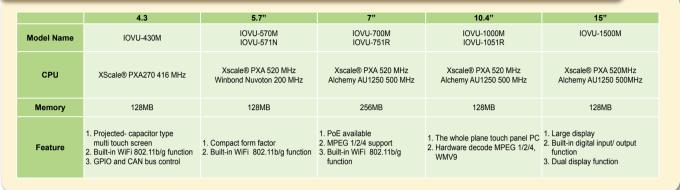
The IOVU is directly mounted internally to a metal main frame rather than a fragile plastic cover. In addition, the IOVU case is made from ABS/PC (Acrylonitrile Butadiene Styrene/ Polycarbonate Alloy), which improves the stiffness over conventional material and makes the system more solid and durable

IOVU Intelligent Panel PC

Introduction

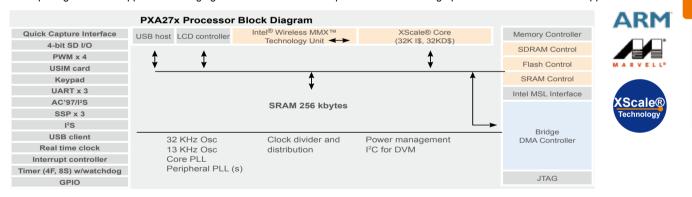
IOVU series enables the great embedded flexibility for RISC-based panel PC applications. Built-in XScale or Alchemy CPU, LCD display, touch screen, I/O peripherals and pre-installed Windows CE5.0, the IOVU series provide the most cost-effective and stable solution for a diverse range of embedded RISC-based panel PC application. IOVU provides an easy way to collect, transfer, process, access and manage data which is generated or inquired in various applications such as Factory Automation, Home Automation, Medical, Transportation management, POS...etc.

RISC-based Solutions : The best platform for embedded system and Panel PC



■ MARVELL XScale[®] PXA270 and RMI Alchemy[™] AU1250

High performance, ultra low power, lower cost, faster time-to-market, ARM V5TE compliant and robust tool chains make XScale® technology a compelling choice for applications ranging from smaller multimedia portable devices to high performance I/O or network applications.



IEI provides RMI Alchemy[™] RISC-based technology to enable users to play DVD quality video efficiently at full-frame rates with low power consumption. The integrated MAE (Media Acceleration Engine) supports common digital video media including MPEG1, 2, 4, DivX, and WMV9 scaled up to 1024 x 768 pixel resolution , and delivers full D1 resolution without the need for a DSP or specialized coding.



	DDR	SDRAM		NOR/NAND Flash	
	DDR	SDRAM		ROM CompactFlash™	
	DDR Co		→	Static Controller	
	Media Acceleration Engine		(→	DDMA Engine	
€	LCD Cor	ntroller	System Bus	EJTAG	\leftrightarrow
	Enhanced	Bus Unit	H ^{Syste}	Camera Interface	$ \Longleftrightarrow $
	MIPS32® CPU Core	16 KB Instructor Cache	↔ ←	USB 2.0 w/OTG	↔
	32x16	16 KB		SD/SDIO/MMC (2)	$ \Longleftrightarrow $
	MAC	Data Cache		GPIO (48)	
	AES-128	<u>.</u>		RTC w/Batt Backup	
	UART (2) PSC (2) AC97, I ² S,	SPI, SMBus	↔ ↔	Power Management Sleep, Hibernate, Idle0, Idle1	

	XScale Technology		AMD Geode
	XScale PXA270	Alchemy [™] Au1250 [™]	AMD® LX800
CPU Speed	520MHz	500 MHz	500MHz
Companion Chipset	No need	No need	AMD® CS5536
Super I/O	No need	No need	Winbond W83627EHG
System Memory	SDRAM	DDR I/II	DDR
Multimedia Support	MPEG1/2 with Software codec	Built-in Hardware MAE	MPEG1/2 with Software codec
H.D.D I/F	CompactFlash™	IDE	IDE
LCD I/F	18-bit TTL	24-bit TTL	24-bit TTL
Power Consumption	747 mW	492 mW	4W
Working Temperature	-20°C ~ 85°C	-40°C ~ 100°C	0°C ~ 50°C or -10°C ~ 70°C
Embedded OS Support	Windows® CE and Embedded Linux	Windows® CE and Embedded Linux	Windows® XP/XPe/CE

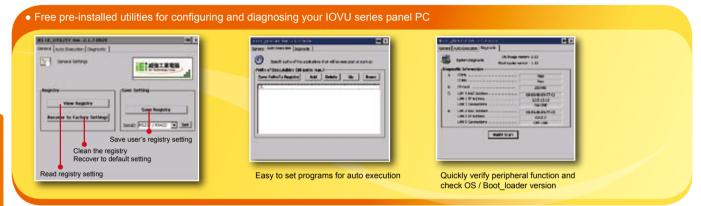
Software Support

SDK (Software Development Kit)

- Attached Software Development Kit (SDK) for eMbedded Visual C++ to program Windows® CE application.
- Built-in .NET Compact Framework support with related SDK
- Thin Client Technology, Microsoft RDP (Remote Desktop Protocol), to enable IOVU series to access Microsoft Windows® based applications installed on Microsoft Terminal Service server.
- Attached SDK including GUI, Sample Code, and Tool chain make users program application readily.



IEI WinCE Utility



RMT (Remote Management Tool)

• Free pre-installed utilities for configuring and diagnosing your IOVU series panel PC



BSP (Board Support Package)

Linux Kernel 2.6.18

- GNU standard Embedded Linux 2,6,18 bootloader and OS image.
- Secure Shell (OpenSSH) providing 128-bit, 192-bit or 256-bit encryption between the IOVU series and another system
- Built-in web browser and X-window system
- Related Linux drivers for onboard peripheral I/O, network and audio
- Optional Board Support Package (BSP) includes kernel source code for customers to customize their own OS image.



Windows® CE5.0

- Standard Windows® CE5.0 professional version license.
- Optional Board Support Package (BSP) for customers to customize their own OS image.

Windows® Platform Builder



RISC-Intro-V20

www.ieiworld.com

5%-90%RH

5%-90%RH

5%-90%RH

IOVU RISC-based Panel PC specifications POE NEW!! NEW!! NEW// NEW!! Multi touch **IOVU-751R IOVU-700M** IOVU-1500M Model Name **IOVU-430M IOVU-570M IOVU-571N IOVU-1000M** IOVU-1051R SYSTEM Nuvoton (Winbond) XScale® PXA270 XScale® PXA XScale® PXA XScale® PXA Alchemy™ AU1250 Alchemy™ AU1250 XScale® PXA W90P910CBG 416 MHz 520 MHz 520 MHz 520 MHz 520 MHz 500 MHz 500 MHz 200 MHz Bootloader 2 MB 2 MB N/A 2 MB 2 MB 2 MB 2 MB 2 MB 128 MB SDRAM 256 MB SDRAM 128 MB DDR2 RAM 128 MB SDRAM 128 MB SDRAM 128MB SDRAM 128 MB SDRAM 256 MB DDR2 128MB compact 256MB compact OS/Program 1GB Mini secure 1GB secure digital 128MB compact 1GB secure digital 256MB compact 64MB NAND flash flash card flash card flash card flash card digital card card card I CD Size 4.3" 5.7" 5.7" 7" 15" 7" 10.4" 10.4" 262 K 262 K 262K 262 K 262K 262K 262 K 262K LCD Color Display Resolution WQVGA VGA VGA WVGA SVGA XGA WVGA SVGA LCD Brightness 400 230 500 400 400 350 400 230 (cd/m^2) Dot Pitch (mm) 0.066(H) x 0.198(V) 0.06(H) x 0.18(V) 0.06(H) x 0.18(V) 0.064(H) x 0.191(V) 0.264 x 0.264 0.297 x 0.297 0.064(H) x 0.191(V) 0.264 x 0.264 Viewing Angle (H-V) 100 / 60140 / 100 140/ 100 140 / 100 120 / 100 120 / 100 140 / 100 120 / 100 Backlight MTBF 50000 20000 50000 10000 25000 25000 50000 20000 Projective-Capacitor **Touch Screne** Resistor Type Туре MPEG 1/2/4 and WMV9 Multimedia Support MPEG 1/2/4 and MPEG 1 MPEG 1 MPEG 1 MPEG 1 MPEG 1 MPEG 1 WMV9 I/O and COMMUNICATION 1 x RS-232/422/485 1 x RS-232 3 x RS-232/422/485 2 x 10/100Mbps LAN 1 x RS-232/422/485 1 x RS-232 1 x RS-232/422/485 1 x RS-232/422/485 1 x USB2.0 host 1 x RS-422/485 1 x RS-232/422/485 (software controllable) 1 x USB client (Software (software controllable) (Software 2 x 10/100Mbps LAN 2 x 10/100Mbps LAN 1 x Reset button 2 x 10/100Mbps LAN 1 x SD card slot . Controllable) 2 x USB2.0 host Controllable) 1 x 10/100Mbps I AN 2 x USB1 1 host 1 x 10/100Mbps LAN 1 x RS-232 2 x USB1.1 host 1 x Reset button 1 x RS-232 2 x USB1.1 host 1 x 10/100Mbps LAN 1 x Reset button 2 x 10/100Mbps LAN 1 x Reset button 1 x USB1.1 host 1 x SD card slot 1 x RS-232 1 x On/Off power 1 x RS-422/485 1 x On/Off power (one supports POE) 2 x USB2.0 host 1set CAN bus 1 x Reset button 1 x USB1.1 host 1 x On/Off power switch 1 x On/Off power 6sets GPIO 8 x Digital input 1 x Reset button I/O Interface 1 x On/Off power switch switch 1 x 2pin Terminal 1 x Reset button switch 1 x On/Off power 1 x AC input 8 x Digital output 1 x AC input switch block DC input 1 x 2pin Terminal switch (IOVU-1000M) 1 x VGA output 1 x On/Off power 1 x 12V DC input 1 x 2pin Terminal 1 x 2pin Terminal switch block power input (IOVU-1002M) 1 x 24V DC input block power input block power input 1 x 2pin Terminal 1set CAN bus block power input (IOVU-1004M) 1 x Power jack 1 x Mic-in, 1 x Line-1 x Mic-in, 1 x Line-1.5W Speaker 1.5W Speaker x 2 Audio 1.5W Speaker 1 x Line-out 1.5W Speaker 1 x Line-out out out KAMIO-WL01 Wireless LAN 802.11 b/a 802.11 b/g N/A 802.11 b/a N/A optional module N/A N/A (802.11 b/g) DIMENSION Construction Material ABS + PC Plastic Aluminum ABS + PC Plastic ABS + PC Plastic 0.85 2.62 4 2.62 Net Weight (kg) 0.6 0.7 0.8 0.8 Black Black Black Black Cool Gray Sliver Black Cool Grav Dimension (W x H x D mm) 145 x 104 x 34 180 x 135 x 45 180 x 132 x 40 226 x 140 x 41 312.5 x 242.6 x 68 410 x 309 x 85.2 226 x 140 x 41 312.5 x 242.6 x 68 Operating Temperature (°C) -20°C~60°C -20°C~60°C 0°C~50°C -20°C~60°C 0°C~50°C 0°C~50°C -20°C~60°C 0°C~50°C IP65 Compliant IP64 Compliant IP64 Compliant IP64 Compliant IP65 Compliant IP65 Compliant IP64 Compliant IP65 Compliant Protection Power Mode AT AT AT AT AT AT ATX AT 12~36V DC input 12~36 V DC-IN 9~28 V DC-IN 12~36 V DC-IN 100~240 V AC-IN 9~36 V DC-IN 6~30 V DC-IN 100~240 V AC-IN Requirement Power Consumption 7 W 8 W 8 W 10 W 13 W 24W 8.5 W 13 W MIL-STD-810F Vibration and Shock 1. Axes: 3 axes (Vertical / Transverse / Longitudinal) 2. 10 ~ 500Hz, 60min/axis 3. Equivalent to Z: 2.18Grms, X: 1.6Grms, Y: 1.96Grms

5%-90%RH

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IOVU-430M

ARM-based Panel PC

While touch sensor is commonplace for single points of contact, IOVU-430M's multi-touch sensor enables a user to interact with the system with more than one finger at a time. IOVU-430's RISC-based system provides high performance, lower power consumption, wide operating temperature, rugged compact form factor and cost-effective. Built-in WiFi module, GPIO (general purpose input/output) and CAN bus control have varied applications be flexible.



Features:

- RISC-based processor provides high performance and extremely low power consumption
- 4.3" widescreen WQVGA TFT LCD with projected-capacitor touch screen
- Multi-touch function provides flexible touch control
- Compact design with plastic housing and fan-less system

- Whole plane multi-touch panel PC
- Built-in 1.5w speakers
- Built-in 802.11b/g WiFi function
- CAN bus and GPIO provide flexible industrial control
- The whole plane multi-touch screen and IP65 compliant
- Mini secure digital card slot for storage extension

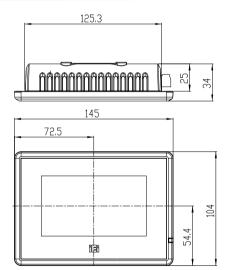


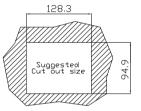
IOVU-430M Specifications

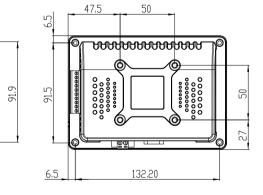
Model	IOVU-430M
LCD size	4.3"
Max. Resolution	480 x 272
Brightness (cd/m ²)	400
LCD Color	262K
Pixel Pitch (mm)	0.066(H) x 0.198(V)
Backlight MTBF	10000 hrs
Touch Screen	Projected-Capacitor
CPU	MARVELL XScale PXA270 416MHz
RAM	128MB SDRAM
Bootloader Storage	2MB boot ROM
OS/Program Storage	1GB Mini Secure Digital card
I/O Ports and Switches	1 x RS-232/422/485 COM port (software controllable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB1.1 host 1set CAn bus 6sets GPIO 2pin Terminal block DC input

Audio	1.5W speaker x 2
Construction Material	ABS + PC Plastic
LED Function	1 x Power ON/OFF LED on front panel
Mounting	Wall, Stand, Vstand and Arm (VESA 50 x 50)
Front Panel Color	Black
Dimension (W x H x D mm)	145 x 104 x 34
Operation Temperature (°C)	-20°C ~ 60°C
Storage Temperature (°C)	-20°C ~ 80°C
Net Weight (kg)	0.7
IP Level (front panel)	IP 65
Power Requirement	12~36V DC input
Power Consumption	7W

Dimensions (Unit : mm)







Packing List

- 1 x IOVU-430M
- 1 x Null modem cable
- 1 x Screw kits
- 1 x Utility CD includes SDK, utilities, and technical document
- 1 x Touch pen

Ordering Information

Part No.	Description
IOVU-430M-CE5/-R10	4.3" TFT, WQVGA, 262K color, Multi- touch Panel PC with built-in Windows® CE 5.0 license

Options	
Part No.	Description
63000-FSP0601AD101C760-RS	12V DC 60W power adapter with bare wire, 90~264V AC input

2 Point of Service



- 5.7" TFT VGA LCD with resistive touch screen
- MARVELL XScale PXA270 520MHz processor and 128MB SDRAM
- Default 1GB secure digital card for OS and user data/programs
- Built-in 802.11b/g Wireless LAN
- Built-in 1.5W speakers
- IP64 compliant front panel
- · Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system.
- Windows® CE5.0 SDK for user application software development.

Packing List

- 1 x IOVU-570M
- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x Null modem cable
- 1 x Touch pen

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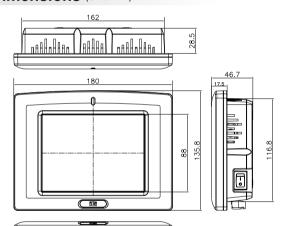
Ordering Information

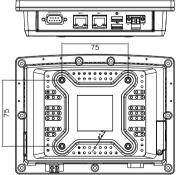
IOVU-570M-CE5/-R10)

Description 5.7", VGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, 802.11b/ g wireless LAN and built-in Windows® CE5.0 **Operating System**

Options

Dimensions (Unit : mm)





Part No.	Description
ALFPK-08	Panel mount kit
AFLWK-07	VESA 75 wall mount kit
ARM-11-RS	LCD Monitor/PPC Arm kit loading capacity from 3kg~7kg
STAND-A08-RS	LCD Monitor/PPC Stand kit for VESA 75 and support up to 5 Kg
VSTAND-A07	LCD Monitor/PPC STAND V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg
AFLP-12BMSR-U	USB Magnetic Card Reader
AFLP-BRW01-U / AFLPBRB01-U	USB Barcode Reader (White / Black)
AFLP-CDB01 / AFLP-CDW01	VFD Customer Display (Green) 5 x 7 dot matrix (Black / White)
63000-FSP0601AD101C760-RS	12V DC 60W power adapter with bare wire, 90~264V AC input



- Preinstalled Windows® CE5.0 embedded operationg system
- Windows® CE5.0 SDK for user application software development
- Default 128MB Flash for OS and user data/programs
- DC input +9V~+28V DC

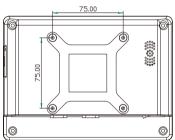
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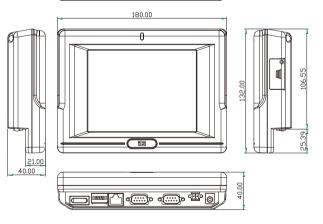
1 x IOVU-571N

- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x Null modem cable
- 1 x Touch pen
- 1 x Screw kits

Ordering Information

Part No.	Description
IOVU-571N-CE5/-R10 V	5.7" VGA fan-less touch panel PC with Winbond W90P910CBG CPU, 128MB SDRAM and built-in Windows® CE5.0 Operating System





Options

Part No.	Description		
ALFPK-08	Panel mount kit		
AFLWK-07	VESA 75 wall mount kit		
ARM-11-RS	LCD Monitor/PPC Arm kit loading capacity from 3kg~7kg		
STAND-A08-RS	LCD Monitor/PPC Stand kit for VESA 75 and support up to 5 Kg		
VSTAND-A07	LCD Monitor/PPC STAND V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg		
63000-FSP0601AD101C760-RS	12V DC 60W power adapter with bare wire, 90~264V AC input		



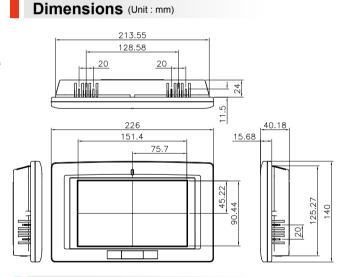
- 7" TFT WVGA LCD with resistive touch screen
- MARVELL XScale PXA270 520MHz processor and 256MB SDRAM
- Default 256MB CompactFlash® card for OS and user data/programs
- Internal WiFi controller provides 802.11b/g protocol
- Provide one set of CAN bus for industrial application
- Built-in 1.5W speakers
- IP64 compliant front panel
- Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system
- Windows® CE5.0 SDK for user application software development

Packing List

- 1 x IOVU-700M
- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x Null modem cable
- 1 x Touch pen

Ordering Information

Part No.	Description
IOVU-700M-CE5/-R10	7", WVGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 256MB SDRAM, 802.11b/g WiFi function and built-in Windows® CE5.0 Operating System



Options

Part No.	Description
ALFPK-08	Panel mount kit
AFLWK-07	VESA 75 wall mount kit
ARM-11-RS	LCD Monitor/PPC Arm kit loading capacity from 3kg~7kg
STAND-A08-RS	LCD Monitor/PPC Stand kit for VESA 75 and support up to 5 Kg
VSTAND-A07	LCD Monitor/PPC STAND V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg
AFLP-12BMSR-U	USB Magnetic Card Reader
AFLP-BRW01-U / AFLPBRB01-U	USB Barcode Reader (White / Black)
AFLP-CDB01 / AFLP-CDW01	VFD Customer Display (Green) 5 x 7 dot matrix (Black / White)
63000-FSP0601AD101C760-RS	12V DC 60W power adapter with bare wire, 90~264V AC input

ARM-based Panel PC

IOVU-1000M



Features:

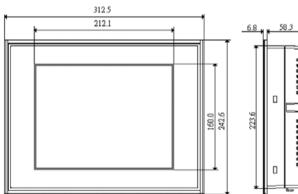
- 10.4" TFT SVGA LCD with resistive touch screen
- MARVELL XScale® PXA270 520MHz processor and 128MB SDRAM
- Default 128MB CompactFlash® card for OS and user data/ programs
- IP65 compliant front panel
- · Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system.
- Windows® CE5.0 SDK for user application software development

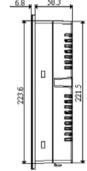
Packing List

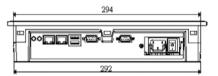
1 x IOVU-1000M

- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x Null modem cable
- 1 x Touch pen

Dimensions (Unit : mm)







Ordering Information

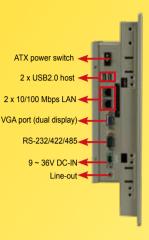
Part No.	Description
IOVU-1000M-CE5/-R12	10.4", SVGA fan-less touch panel PC with MARVELL XScale® PXA270 CPU, 128MB SDRAM, and built-in Windows® CE5.0 Operating System, power type is AC input
IOVU-1002M-CE5/-R12	10.4", SVGA fan-less touch panel PC with MARVELL XScale® PXA270 CPU, 128MB SDRAM, and built-in Windows® CE5.0 Operating System, power type is 12V DC input
IOVU-1004M-CE5/-R12	10.4", SVGA fan-less touch panel PC with MARVELL XScale® PXA270 CPU, 128MB SDRAM, and built-in Windows® CE5.0 Operating System, power type is 24V DC input

2 Point of Service

3

IOVU-1500M

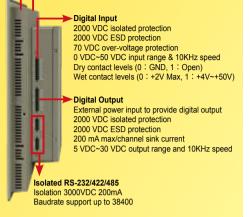




XScale®

ARM

ARM-based Panel PC



1. Optional KAMIO-WL01 802.11b/g WiFi module 2. Optional KAMIO-SD01 Mini SD card reader module

RISC-based PPC

Features:

- 15" TFT XGA LCD with resistive touch screen
- MARVELL XScale PXA270 520MHz processor and 128MB SDRAM
- Default 256MB CompactFlash® card for OS and user data/ programs
- IP65 compliant front panel
- Built-in Isolated Digital input/output
- Provide dual display function
- Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system.
- Windows® CE5.0 SDK for user application software development

Packing List

- 1 x IOVU-1500M
- 1 x Utility CD includes application tools, SDK, and technical document. 1 x Null modem cable
- 1 x Touch pen

Ordering Information

Part No.	Description
IOVU-1500M-CE5/-R10	15", XGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, built-in Windows® CE5.0 Operating System

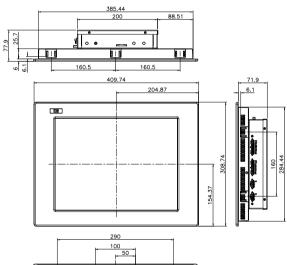
Options

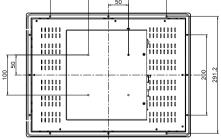
Part No.	Description
KAMIO-WL01-R20	Wireless LAN module supports 802.11b/g
KAMIO-SD01-R10	Mini SD card reader module
AFLPK-15	Panel mount kit
AFLWK-19	VESA 100 wall mount kit
ARM-31-RS	LCD Monitor/PPC Arm kit loading capacity from 7kg~14kg
STAND-A19-RS	LCD Monitor/PPC Stand kit for VESA 100 and support up to 7.5 Kg
AFLP-12BMSR-U	USB Magnetic Card Reader
AFLP-BRW01-U / AFLP-BRB01-U	USB Barcode Reader (White / Black)
AFLP-CDB01 / AFLP-CDW01	VFD Customer Display (Green) 5 x 7 dot matrix (Black / White)
63000-FSP0601AD101CT60-RS	12V DC 60W power adapter with bare wire, 90~264V AC input

Dimensions (Unit : mm)

60

Windows CE 5.0





2 Point of Service



Applications

The IOVU-751R is a rugged, compact device that has low power consumption and is designed without failure-prone hard disks and fans; moreover, its high-performance multimedia support is a solution for diverse range of applications :

- > POE supports Ethernet transmission for updating advertisement and doesn't need additional power supply.
- > Compliant with varied digital video media including MPEG1, 2, 4, DivX, and WMV9.
- > Internal speakers and fan-less feature for great audio presentation.





Home / Building Automation

 Update the latest information by Ethernet like cookbook, entertainment program...etc.
Power meter, lighting control, and homesafety.



Slim POS

- PoE supports Ethernet service and power supply function directly.
- Easy to integrate optional barcode reader, magnetic card reader, and customer display.

Thin/Client

- Provide the service information to all passengers.
- Varied movies, games, and chat room for all passengers.

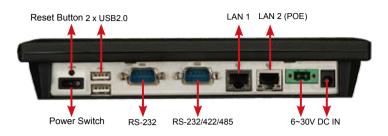


Digital Signage & Game Device

- Update advertisement programs by Ethernet and support multimedia functions.
- Access games, sport training programs and internet service. Users don't need an individual coach anymore.



- Processor includes MAE (Media Acceleration Engine) supports MPEG 1/2/4 and WMV9
- RISC-based processor provides high performance and extremely low power consumption
- POE (Power over Ethernet) function
- 7" widescreen WVGA TFT LCD with resistive touch screen
- Compact design with plastic housing
- Fanless system
- Built-in 1.5W speakers
- Secure Digital card slot for storage extension
- IP64 compliant front panel



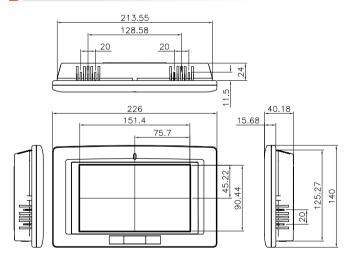
IOVU-751R Specifications

Model	IOVU-751R
LCD Size	7"
Max. Resolution	800 x 480
Brightness (cd/m2)	400
LCD Color	262K
Pixel Pitch (mm)	0.0635 (H) x 0.1905 (V)
Backlight MTBF	50000 hrs
Touch Screen	Resistive Type 4-wire
CPU	Alchemy™ Au1250™ 500 MHz
RAM	256 MB DDR2
Bootloader Storage	2 MB boot ROM
OS/Program Storage	1 GB Secure Digital card
I/O Ports and Switches	1 x RS-232 COM port 1 x RS-232/422/485 COM port (Software Controllable) 1 x Reset button 1 x On/Off power switch 2 x 10/100Mbps LAN (one supports POE) 2 x USB2.0 host

1 x Utility CD includes application tools, SDK, and technical document.

Audio	1.5W speaker x 2
Construction Material	ABS + PC Plastic
LED Function	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Stand, Vstand and Arm (VESA 75 x 75)
Front Panel Color	Gray 7C
Dimensions (W x H x D mm)	226 x 140 x 40
Operating Temperature (°C)	-20 ~ 60
Storage Temperature (°C)	-20 ~ 80
Net Weight (kg)	0.8
IP Level (front panel)	IP 64
Power Requirement	6~30 V DC
Power Consumption	8.5 W

Dimensions (Unit : mm)



Options

IOVU-751R-UX/-R10

IOVU-751R-CE5/-R10

Packing List

Ordering Information

Description

Operating System

Operating System

7", WVGA fan-less touch panel PC with RMI Alchemy AU1250 CPU, 256MB DDR2 SDRAM, LAN

7", WVGA fan-less touch panel PC with RMI

supports POE function and built-in Windows® CE5.0

Alchemy AU1250 CPU, 256MB DDR2 SDRAM, LAN

supports POE function and built-in ARM-Linux 2.6.18

1 x IOVU-751R

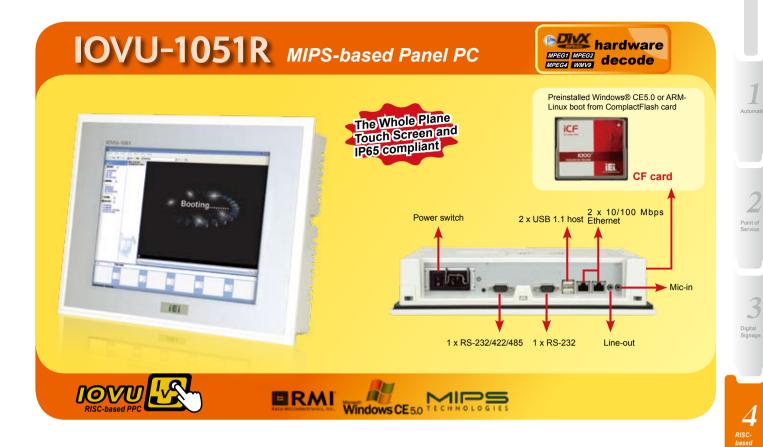
1 x Touch pen

1 x Screw kit

Part No.

1 x Null modem cable

Options		
Part No.	Description	
ALFPK-08	Panel mount kit	
AFLWK-07	VESA 75 wall mount kit	
ARM-11-RS	LCD Monitor/PPC Arm kit loading capacity from 3kg~7kg	
STAND-A08-RS	LCD Monitor/PPC Stand kit for VESA 75 and support up to 5 Kg	
VSTAND-A07	LCD Monitor/PPC STAND V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg	
AFLP-12BMSR-U	USB Magnetic Card Reader	
AFLP-BRW01-U / AFLPBRB01-U	USB Barcode Reader (White / Black)	
AFLP-CDB01 / AFLP-CDW01	VFD Customer Display (Green) 5 x 7 dot matrix (Black / White)	
63000-FSP0361 AD101C-RS	POWER ADAPTER, 90V-264V input and 12V/36W output; PLUG u2.5/u5.5/no lock	
63000-FSP0601AD101C760-RS	12V DC 60W power adapter with bare wire, 90~264V AC input	



- 10.4" TFT SVGA LCD with resistive touch screen
- RMI Alchemy[™] AU1250 500MHz processor and 128MB DDR2 SDRAM
- Default 256MB CmpactFlash® card for OS and user data/ programs
- Hardware decode MPEG1/2/4, and WMV9
- IP65 compliant front panel
- · Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system.
- Windows® CE5.0 SDK for user application software development

Packing List

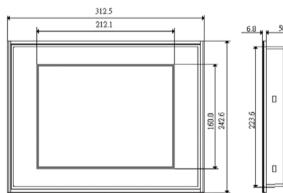
1 x IOVU-1051R

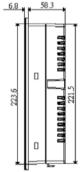
- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x Null modem cable
- 1 x Touch pen
- 1 x Screw kits

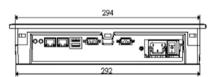
Ordering Information

Part No.	Description
IOVU-1051R-CE5/-R10	10.4", SVGA fan-less touch panel PC with RMI Alchemy AU1250 CPU, 128MB DDR2 SDRAM, and built-in Windows® CE5.0 Operating System, power type is AC input.

Dimensions (Unit : mm)







IOVU Aluminum Series ARM-based Panel PC

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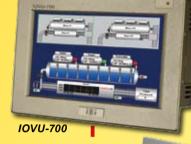
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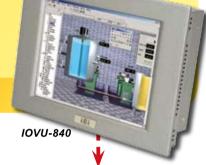
IOVU-650/WL

Features:

IOVU-560

- 5.6"~8.4" TFT LCD with resistive touch screen
- MARVELL XScale PXA270 520MHz processor and 128MB SDRAM
- Default 128MB CompactFlash® card for OS and user data/ programs
- IP65 compliant front panel
- Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system.
- Windows® CE5.0 SDK for user application software development





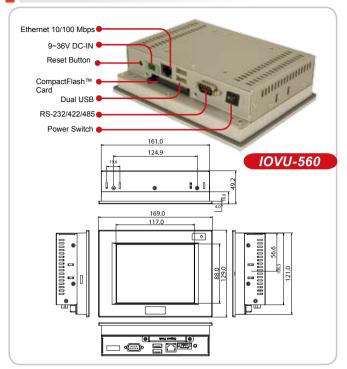
Model Name	IOVU-560	IOVU-650 / 650WL	IOVU-700	IOVU-840
		SYSTEM		
CPU		XScale PXA 520 MHz		
Bootloader Storage		2 MB		
RAM		128 MB	SDRAM	
OS/Program Storage		128 MB CompactFlash®		
		DISPLAY		
LCD Size	5.6"	6.5"	7"	8.4"
	262 K	262K	262 K	262K
Display Resolution	QVGA	VGA	WVGA	SVGA
LCD Brightness (cd/m ²)	500	500	350	450
Dot Pitch (mm)	0.118(H) x 0.362(V)	0.069(H) x 0.207(V)	0.1905 (H) x 0.1905 (V)	0.213 x 0.213
Viewing Angle (H-V)	100 / 60	140 / 120	140 / 100	130 / 110
Backlight MTBF	30000	30000	50000	50000
Touch Screne	Resistive Type	Resistive Type	Resistive Type	Resistive Type
Multimedia Support	MPEG 1	MPEG 1	MPEG 1	MPEG 1
		I/O and COMMUNICATION		
	1 x RS-232/422/485	1 x RS-232/422/485	4 x RS-232/422/485	1 x RS-232/422/485
	1 x 10/100Mbps LAN	1 x 10/100Mbps LAN	(RJ-45 connector)	1 x RS-232
	2 x USB2.0 host	2 x USB2.0 host	1 x RS-232	2 x 10/100Mbps LAN
	1 x CF card slot	1 x CF card slot	1 x 10/100Mbps LAN	2 x USB1.1 host
	1 x Reset button	1 x Reset button	2 x USB2.0 host	1 x Reset button
	1 x On/Off power switch	1 x On/Off power switch	1 x Reset button	1 x On/Off power switch
	1 x 2pin Terminal block power input	1 x 2pin Terminal block power input	1 x On/Off power switch	1 x 12V DC-input
		1 x MiniSD slot (IOVU-650WL)	1 x 2-pin Terminal block power input	
Audio	N/A	N/A	Line-out	1 x Mic-in, 1 x Line-out
Wireless LAN	N/A N/A	802.11b/g (IOVU-650WL)	N/A	N/A
WITEIESS LAN	IN/A	DIMENSIONS	N/A	N/A
Construction Material	Aluminum	Aluminum	Aluminum	Aluminum
	1.08	1.24	1.12	2.08
Net Weight (kg) Front Panel Color	Silver	Silver	Silver	Silver
Dimensions			Silver	Silver
(W x H x D mm)	166 x 126 x 48.63	169 x 129 x 49.2	197.2 x 136.3 x 52.1	243.6 x 177.6 x 55.1
		ENVIRONMENTAL / POWE	R	
Operating Temperature				
(°C)	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Front Panel Protection	IP65 Compliant	IP65 Compliant	IP65 Compliant	IP65 Compliant
Power Mode	ATX	ATX	ATX	AT
Power Requirement	9~36 V DC-IN	9~36 V DC-IN	9~36 V DC-IN	12 V DC-IN
Power Consumption	15 W	14 W	13 W	13 W
			D-810F	
Vibration and Shock	1. Axes: 3 axes (Vertical / Transverse / Longitudinal)			
Vibration and Shock		2. 10 ~ 500H	lz, 60min/axis	
			is, X: 1.6Grms, Y: 1.96Grms	
Humidity	5%-90%RH	5%-90%RH	5%-90%RH	5%-90%RH

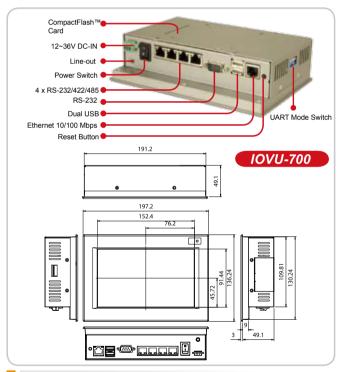
IOVU Aluminum series-V10

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Packing List

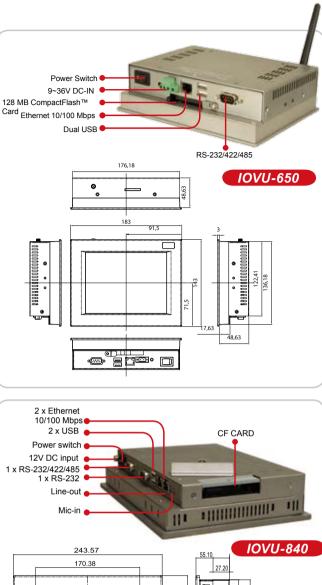
- 1 x IOVU-560 / 650 / 650WL / 700 / 840
- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x 12V, 25W power adapter (only for IOVU-840)

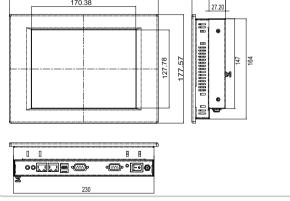
Description

- 1 x Null modem cable
- 1 x Touch pen

Part No.

Ordering Information





Options

Part No.	Description
AFLWK-07	VESA 75 wall mount kit for IOVU-700 / 560
AFLWK-19	VESA 100 wall mount kit for IOVU-840 / 650
STAND-A08-RS	LCD Monitor/PPC Stand kit for VESA 75 for IOVU-700 / 560
STAND-A19-RS	LCD Monitor/PPC Stand kit for VESA 100 for IOVU-840 / 650
63000-FSP0601AD101C760-RS	12V DC 60W power adapter with bare wire, 90~264V AC input

IOVU-560-R10 5.6", QVGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, built-in Windows® CE5.0 Operating System IOVU-650-R10 6.5", VGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, built-in Windows® CE5.0 Operating System 6.5", VGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, built-in mini SD reader, 802.11b/g wireless LAN IOVU-650WL-R10 module and Windows® CE5.0 Operating System IOVU-700-R20 7", WVGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, built-in Windows® CE5.0 Operating System. IOVU-840-R12

8.4", XGA fan-less touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, built-in Windows® CE5.0 Operating System