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

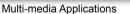


Industrial Automation



Building Automation







Vehicle PC

Windows CE 5.0



Power Monitoring, Power Demand Controller and Report Generator

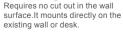
Diversified Mounting Support and Rigorous Environmental Test

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







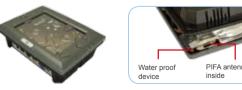
Panel Mount



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



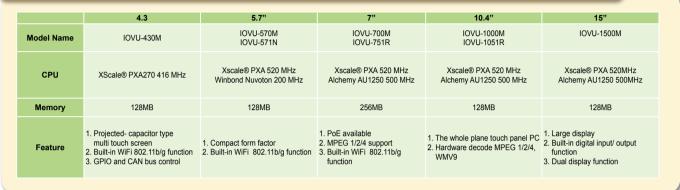
The IOVU is directly mounted internally to a metal main frame rather than a fragile plastic cover. In addition, the IOVU case is made from ABS/PC (Acrylonitrile Butadiene Styrene/ Polycarbonate Alloy), which improves the stiffness over conventional material and makes the system more solid and durable

IOVU Intelligent Panel PC

Introduction

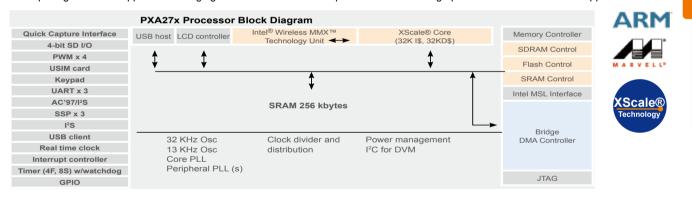
IOVU series enables the great embedded flexibility for RISC-based panel PC applications. Built-in XScale or Alchemy CPU, LCD display, touch screen, I/O peripherals and pre-installed Windows CE5.0, the IOVU series provide the most cost-effective and stable solution for a diverse range of embedded RISC-based 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 |

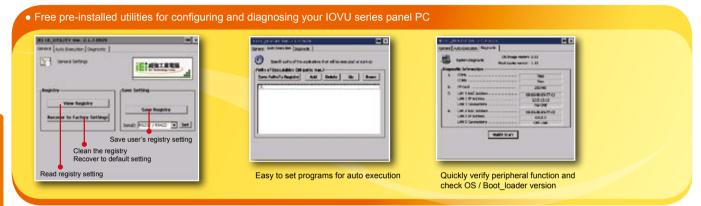
Software Support

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

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5 Medica Solutio

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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

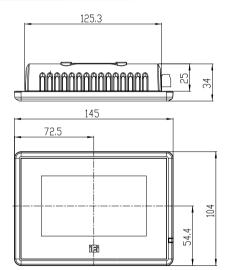


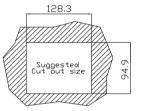
IOVU-430M Specifications

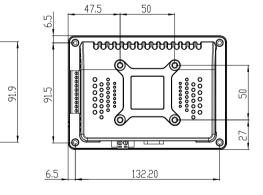
| Model | IOVU-430M |
|---------------------------------|---|
| LCD size | 4.3" |
| Max. Resolution | 480 x 272 |
| Brightness (cd/m ²) | 400 |
| LCD Color | 262K |
| Pixel Pitch (mm) | 0.066(H) x 0.198(V) |
| Backlight MTBF | 10000 hrs |
| Touch Screen | Projected-Capacitor |
| CPU | MARVELL XScale 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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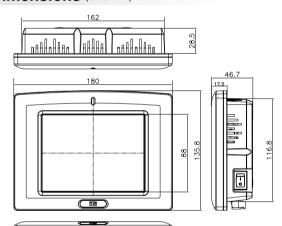
Ordering Information

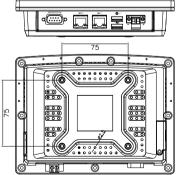
| IOVU-570M-CE5/-R10 |) |
|--------------------|---|

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

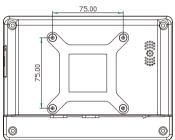
Packing List

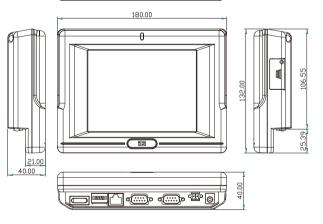
1 x IOVU-571N

- 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 | | |
| | | | |



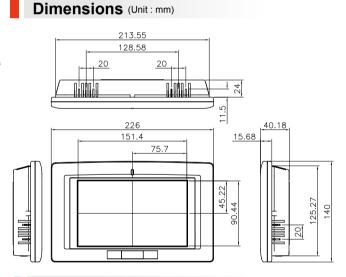
- 7" TFT WVGA LCD with resistive touch screen
- MARVELL XScale PXA270 520MHz processor and 256MB SDRAM
- Default 256MB CompactFlash® card for OS and user data/programs
- Internal WiFi controller provides 802.11b/g protocol
- Provide one set of CAN bus for industrial application
- Built-in 1.5W speakers
- 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:

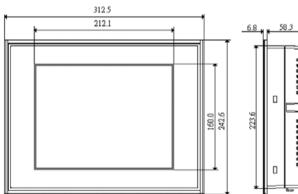
- 10.4" TFT SVGA LCD with resistive touch screen
- MARVELL XScale® PXA270 520MHz processor and 128MB SDRAM
- Default 128MB CompactFlash® card for OS and user data/ programs
- IP65 compliant front panel
- · Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system.
- Windows®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

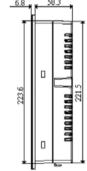
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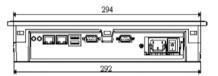
1 x IOVU-1000M

- 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

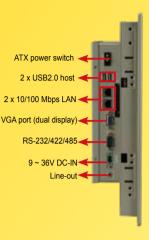
| Part No. | Description |
|---------------------|--|
| IOVU-1000M-CE5/-R12 | 10.4", SVGA fan-less touch panel PC with MARVELL XScale® PXA270 CPU, 128MB SDRAM, and built-in Windows® CE5.0 Operating System, power type is AC input |
| IOVU-1002M-CE5/-R12 | 10.4", SVGA fan-less touch panel PC with MARVELL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

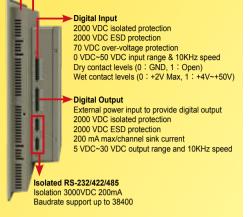




XScale®

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 |

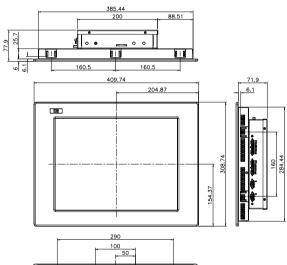
Options

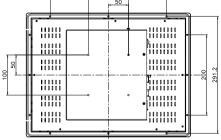
| Part No. | Description |
|-----------------------------|---|
| KAMIO-WL01-R20 | Wireless LAN module supports 802.11b/g |
| KAMIO-SD01-R10 | Mini SD card reader module |
| AFLPK-15 | Panel mount kit |
| AFLWK-19 | VESA 100 wall mount kit |
| ARM-31-RS | LCD Monitor/PPC Arm kit loading capacity from 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.

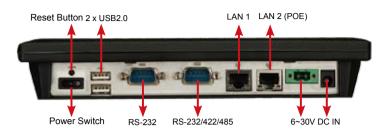


Digital Signage & Game Device

- 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



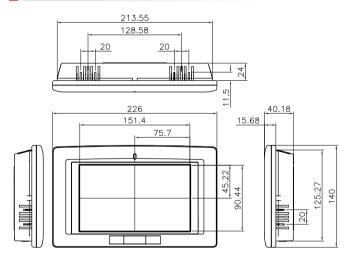
IOVU-751R Specifications

| 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

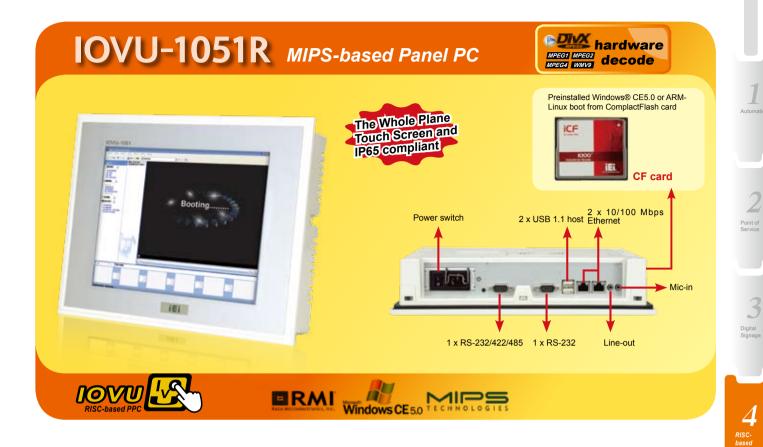
1 x Touch pen

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

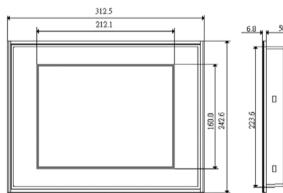
1 x IOVU-1051R

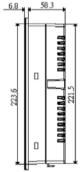
- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x Null modem cable
- 1 x Touch pen
- 1 x Screw kits

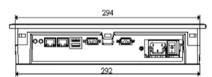
Ordering Information

| 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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iEi

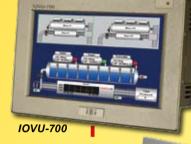
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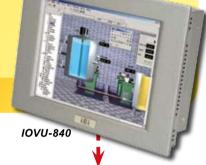
IOVU-650/WL

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





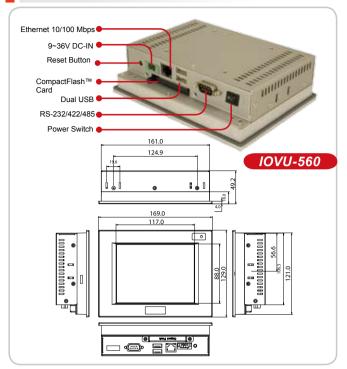
| Model Name | IOVU-560 | IOVU-650 / 650WL | IOVU-700 | IOVU-840 |
|--------------------------------------|--|-------------------------------------|--------------------------------------|--------------------------|
| | | SYSTEM | | |
| CPU | | XScale PXA 520 MHz | | |
| Bootloader Storage | | 2 MB | | |
| 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 |
| | | | | |

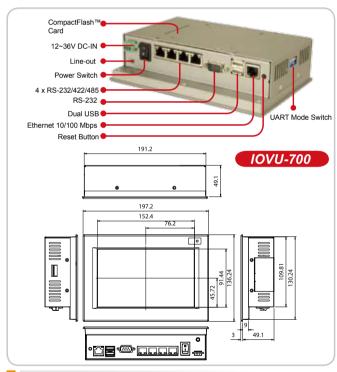
IOVU Aluminum series-V10

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Packing List

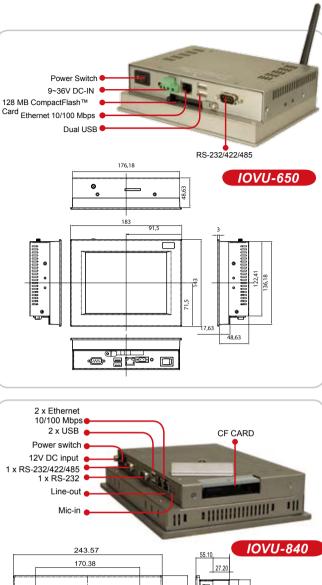
- 1 x IOVU-560 / 650 / 650WL / 700 / 840
- 1 x Utility CD includes application tools, SDK, and technical document.
- 1 x 12V, 25W power adapter (only for IOVU-840)

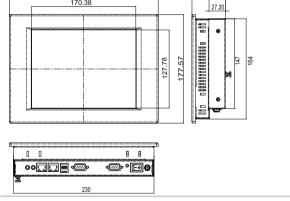
Description

- 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