

# IOVU RISC-based Panel PC specifications



Model Name	IOVU-430M	IOVU-570M	IOVU-571N	IOVU-700M	IOVU-1000M	IOVU-1500M	IOVU-751R	IOVU-1051R
<b>SYSTEM</b>								
CPU	XScale® PXA270 416 MHz	XScale® PXA 520 MHz	Nuvoton (Winbond) W90P910CBG 200 MHz	XScale® PXA 520 MHz	XScale® PXA 520 MHz	XScale® PXA 520 MHz	Alchemy™ AU1250 500 MHz	Alchemy™ AU1250 500 MHz
Bootloader Storage	2 MB	2 MB	2 MB	2 MB	2 MB	2 MB	2 MB	2 MB
RAM	128 MB SDRAM	128 MB SDRAM	128MB SDRAM	256 MB SDRAM	128 MB SDRAM	128 MB SDRAM	256 MB DDR2	128 MB DDR2
OS/Program Storage	1GB Mini secure digital card	1GB secure digital card	128MB NAND flash	256MB compact flash card	256MB compact flash card	256MB compact flash card	1GB secure digital card	256MB compact flash card
<b>DISPLAY</b>								
LCD Size	4.3"	5.7"	5.7"	7"	10.4"	15"	7"	10.4"
LCD Color	262 K	262 K	262K	262 K	262K	262K	262 K	262K
Display Resolution	WQVGA	VGA	VGA	WVGA	SVGA	XGA	WVGA	SVGA
LCD Brightness (cd/m <sup>2</sup> )	500	400	400	400	230	350	400	230
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 / 60	140 / 100	140 / 100	140 / 100	120 / 100	120 / 100	140 / 100	120 / 100
Backlight MTBF	10000	25000	25000	50000	20000	50000	50000	20000
Touch Screne	Projective-Capacitor Type	Resistor Type	Resistor Type	Resistor Type	Resistor Type	Resistor Type	Resistor Type	Resistor Type
Multimedia Support	MPEG 1	MPEG 1	MPEG 1	MPEG 1	MPEG 1	MPEG 1	MPEG 1/2/4 and WMV9	MPEG 1/2/4 and WMV9
<b>I/O and COMMUNICATION</b>								
I/O Interface	1 x RS-232/422/485 (software controllable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB1.1 host 1set CAN bus 6sets GPIO 1 x 2pin Terminal block DC input	1 x RS-232/422/485 (software controllable) 2 x 10/100Mbps LAN 2 x USB1.1 host 1 x SD card slot 1 x Reset button 1 x On/Off power switch 1 x 2pin Terminal block power input	1 x USB2.0 host 1 x USB client 1 x SD card slot 1 x 10/100Mbps LAN 1 x RS-232 1 x 10/100Mbps LAN 1 x USB1.1 host 1 x Reset button 1 x On/Off power switch 1 x 2pin Terminal block power input 1set CAN bus	1 x RS-422/485 (Software Controllable) 1 x RS-232 1 x 10/100Mbps LAN 1 x USB1.1 host 1 x Reset button 1 x On/Off power switch 1 x 12V DC input (IOVU-1000M) 1 x 12V DC input (IOVU-1002M) 1 x 24V DC input (IOVU-1004M)	1 x RS-232/422/485 1 x RS-232 2 x 10/100Mbps LAN 2 x USB2.0 host 2 x USB1.1 host 1 x Reset button 1 x On/Off power switch 1 x AC input (IOVU-1000M) 1 x 12V DC input (IOVU-1002M) 1 x 24V DC input (IOVU-1004M)	3 x RS-232/422/485 2 x 10/100Mbps LAN 2 x USB2.0 host 1 x Reset button 1 x On/Off power switch 8 x Digital input 8 x Digital output 1 x VGA output 1 x 2pin Terminal block power input	1 x RS-232/422/485 (Software Controllable) 1 x RS-232 2 x 10/100Mbps LAN (one supports POE) 2 x USB2.0 host 1 x Reset button 1 x On/Off power switch 1 x 2pin Terminal block power input 1 x AC power jack	1 x RS-232/422/485 1 x RS-232 2 x 10/100Mbps LAN 2 x USB1.1 host 1 x Reset button 1 x On/Off power switch 1 x AC input
Audio	1.5W Speaker x 2	1.5W Speaker	1 x Line-out	1.5W Speaker	1 x Mic-in, 1 x Line-out	1 x Line-out	1.5W Speaker	1 x Mic-in, 1 x Line-out
Wireless LAN	802.11 b/g	802.11 b/g	N/A	802.11 b/g	N/A	KAMIO-WL01 optional module (802.11 b/g)	N/A	N/A
<b>DIMENSION</b>								
Construction Material	ABS + PC Plastic	ABS + PC Plastic	ABS + PC Plastic	ABS + PC Plastic	ABS + PC Plastic	Aluminum	ABS + PC Plastic	ABS + PC Plastic
Net Weight (kg)	0.6	0.7	0.8	0.85	2.62	4	0.8	2.62
Front Panel Colco	Black	Black	Black	Black	Cool Gray	Sliver	Black	Cool Gray
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
<b>ENVIRONMENTAL / POWER</b>								
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
Front Panel Protection	IP65 Compliant	IP64 Compliant	IP64 Compliant	IP64 Compliant	IP65 Compliant	IP65 Compliant	IP64 Compliant	IP65 Compliant
Power Mode	AT	AT	AT	AT	AT	ATX	AT	AT
Power Requirement	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
Power Consumption	7 W	8 W	8 W	10 W	13 W	24W	8.5 W	13 W
Vibration and Shock	MIL-STD-810F 1. Axes: 3 axes (Vertical / Transverse / Longitudinal) 2. 10 ~ 500Hz, 60min/axis 3. Equivalent to Z: 2.18Grms, X: 1.6Grms, Y: 1.96Grms							
Humidity	5%-90%RH	5%-90%RH	5%-90%RH	5%-90%RH	5%-90%RH	5%-90%RH	5%-90%RH	5%-90%RH

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Automation2  
Point of Service3  
Digital Signage4  
RISC-based Solutions5  
Medical Solutions

# 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.



### Whole plane multi-touch panel PC

### 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
- 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



# Application



1  
Automation

2  
Point of Service

3  
Digital Signage

4  
RISC-based Solutions

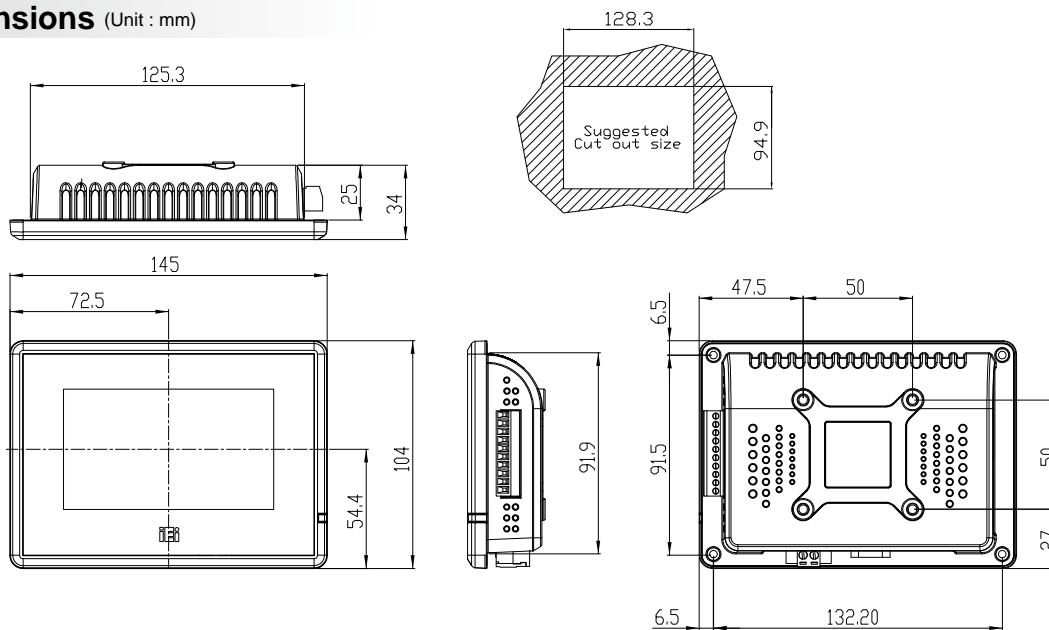
5  
Medical Solutions

## IOVU-430M Specifications

<b>Model</b>	<b>IOVU-430M</b>
<b>LCD size</b>	4.3"
<b>Max. Resolution</b>	480 x 272
<b>Brightness (cd/m<sup>2</sup>)</b>	400
<b>LCD Color</b>	262K
<b>Pixel Pitch (mm)</b>	0.066(H) x 0.198(V)
<b>Backlight MTBF</b>	10000 hrs
<b>Touch Screen</b>	Projected-Capacitor
<b>CPU</b>	MARVELL XScale PXA270 416MHz
<b>RAM</b>	128MB SDRAM
<b>Bootloader Storage</b>	2MB boot ROM
<b>OS/Program Storage</b>	1GB Mini Secure Digital card
<b>I/O Ports and Switches</b>	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

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