

# IOVU-430M

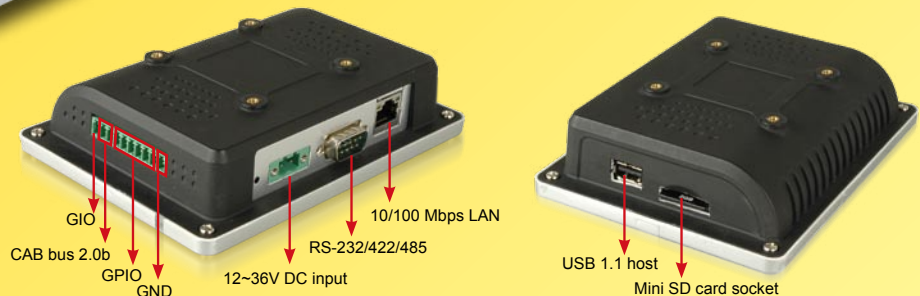
## MULTI-TOUCH EMPOWERED ARM BASED FLAT PLANE PANEL PC

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.



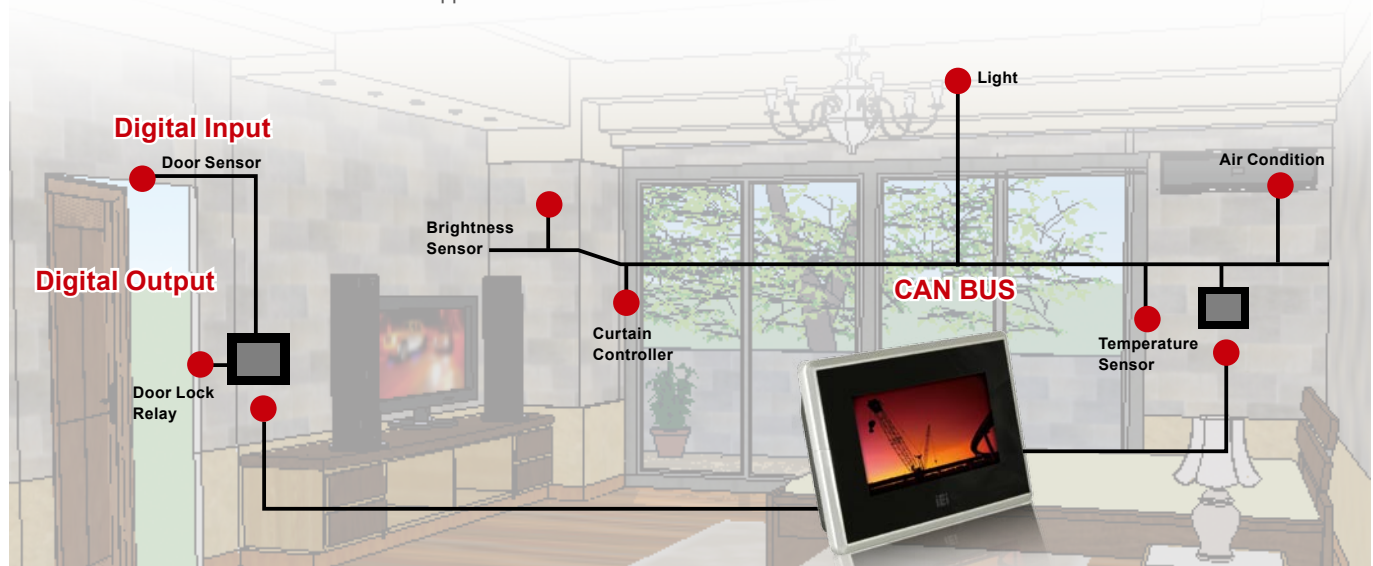
### Features:

- 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
- 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

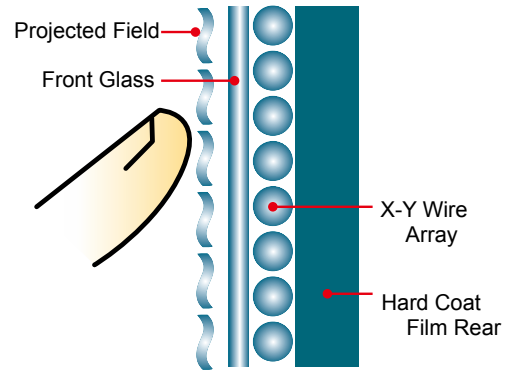


## Flexible Connectivity

Designed for automation application, IOVU-430M provides various control interface choices to fit different automatic control applications. One can use GPIO (General Purpose Input & Output) in single control cases, for instance, to receive door sensor signal via digital input and send output signal to lock relay for door control. Furthermore, IOVU-430M provides CAN BUS connectivity which empowers to compose a smart network in advanced automation applications



## Projective Capacitor Multi-touch



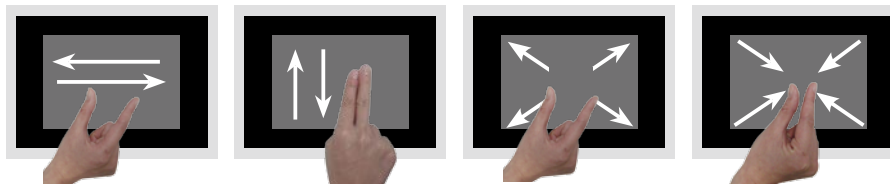
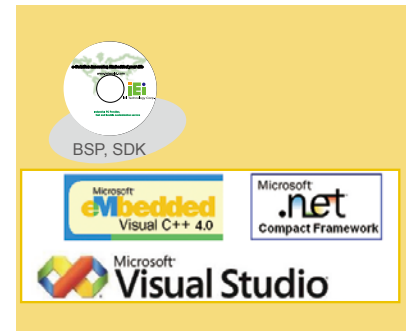
Activated by a finger or gloved hand

### • Operation Theory

PCT is based on the principle of embedding an array of micro-fine sensing wires within a multi-layer laminated screen behind a protective front surface, ensuring that the sensing medium is well-protected from accidental and malicious damage.

### • IEI IOVU-430M Multi-touch SDK

Empowered by equipping multi-touch technology, IOVU-430M provides user a more delight controlling experience. Comparing to conventional single touch technology, now application programmer can enhance user interface friendly by providing intuitive gesture control ways. IEI shares software development Kit and DEMO AP with source code to support quick software building. IEI IOVU-430M multi-touch SDK provides up to 10 gestures for user to define various user behaviors which makes operating more convenient and interesting



Slide (Multi-touch) Left (Right)

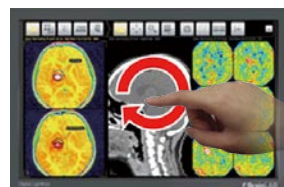
Slide (Multi-touch) Up (Down)

Zoom Out

Zoom In

### • Gesture Applications

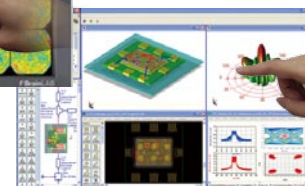
Using combination of gestures, user can freely rotate, zoom-in, zoom-out to put emphasis on specific photograph, graphic, photo or diagram with ability to go back to a wider vision of the whole slide or page as well, providing more convenience and flexibility within process of communication



Healthcare



Presentation



e-Collaboration

## Flat Bezel Flat Plane Panel

The IOVU-430M full-flat surface screen makes the screen and bezel appear to blend seamlessly together. The flat-bezel design removes the front frame (bezel) of standard LCD to create a seamless surface. The IOVU-430M zero-bezel resistive/projective capacitive touch system offers aesthetic elegance, easy to clean, seamless front face.

- Better visual effects
- No EDGE EFFECTS
- Sleek, stylish luxury look without clutter
- Easy clean properties



1  
Automation Panel Solutions

2  
All-in-One Touch POS

3  
Digital Signage

4  
Video Wall Controller

5  
RISC-based Solutions

6  
PACsmate Medical

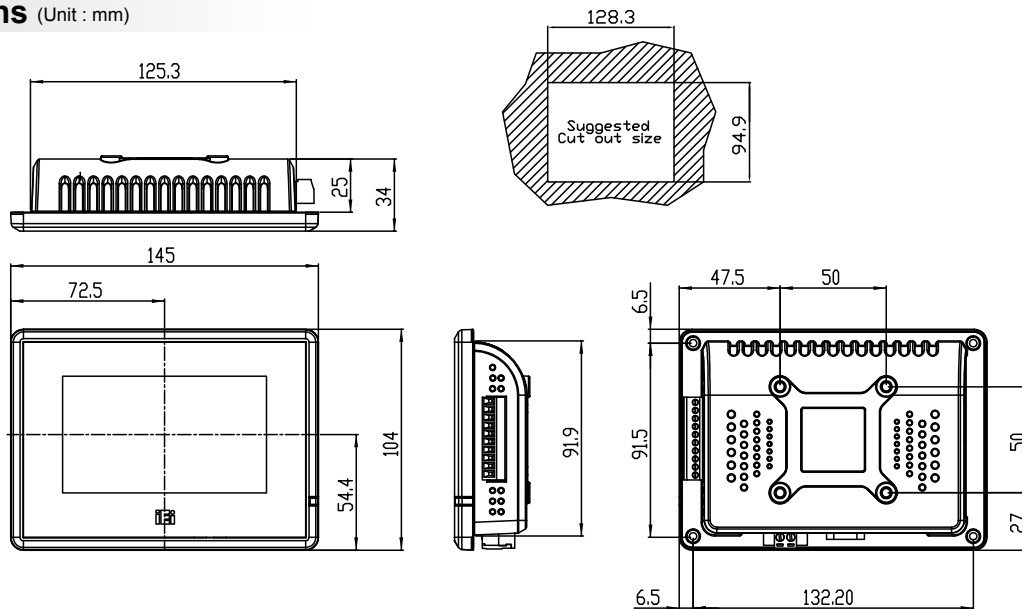
7  
Optional Peripherals

## IOVU-430M Specifications

|                                      |  |                                   |  |
|--------------------------------------|--|-----------------------------------|--|
| <b>Model</b>                         | <b>IOVU-430M</b>   | <b>Audio</b>                      | 1.5W speaker x 2                           |
| <b>LCD size</b>                      | 4.3"   | <b>Construction Material</b>      | ABS + PC Plastic                           |
| <b>Max. Resolution</b>               | 480 x 272  | <b>LED Function</b>               | 1 x Power ON/OFF LED on front panel        |
| <b>Brightness (cd/m<sup>2</sup>)</b> | 400  | <b>Mounting</b>                   | Wall, Stand, Vstand and Arm (VESA 50 x 50) |
| <b>LCD Color</b>                     | 262K   | <b>Front Panel Color</b>          | Black                                      |
| <b>Pixel Pitch (mm)</b>              | 0.066(H) x 0.198(V)  | <b>Dimension (W x H x D mm)</b>   | 145 x 104 x 34                             |
| <b>Backlight MTBF</b>                | 10000 hrs  | <b>Operation Temperature (°C)</b> | -20°C ~ 60°C                               |
| <b>Touch Screen</b>                  | Projected-Capacitor  | <b>Storage Temperature (°C)</b>   | -20°C ~ 80°C                               |
| <b>CPU</b>                           | MARVELL XScale PXA270 416MHz   | <b>Net Weight (kg)</b>            | 0.7  |
| <b>RAM</b>                           | 128MB SDRAM  | <b>IP Level (front panel)</b>     | IP 65                                      |
| <b>Bootloader Storage</b>            | 2MB boot ROM   | <b>Power Requirement</b>          | 12~36V DC input                            |
| <b>OS/Program Storage</b>            | 1GB Mini Secure Digital card   | <b>Power Consumption</b>          | 7W   |
| <b>I/O Ports and Switches</b>        | 1 x RS-232/422/485 COM port (software controllable)<br>1 x Reset button<br>1 x 10/100Mbps LAN<br>1 x USB1.1 host<br>1 x CAN bus 2.0b<br>6 x GPIO<br>2pin Terminal block DC input |                                   |  |

1  
Automation  
Panel  
Solutions2  
All-in-One  
Touch POS3  
Digital  
Signage4  
Video Wall  
Controller5  
RISC-  
based  
Solutions6  
PACsmate  
Medical7  
Optional  
Peripherals

### 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 (only for single touch mode)                     |

### Options

| Part No.                  | Description  |
|---------------------------|--|
| 63000-FSP0601AD101C760-RS | 12V/5A DC 60W power adapter with bare wire, 90~264V AC input |
| IOVU-430M-IWC/B/-R10      | In-Wall-Cage   |
| IOVU-430M-IWC/W/-R10      | In-Wall-Cage   |

### Ordering Information

| Part No.                 | Description  |
|--------------------------|--|
| IOVU-430M-CE5/MT/-R10    | 4.3" TFT, WQVGA fan-less with MARVELL XScale PXA270 CPU, 128MB SDRAM, Projected-capacitor multi-touch Panel PC with built-in Windows® CE 5.0 license |
| IOVU-430M-CE5/ST/-R10    | 4.3" TFT, WQVGA fan-less with MARVELL XScale PXA270 CPU, 128MB SDRAM, Resistor type single-touch Panel PC with built-in Windows® CE 5.0 license      |
| IOVU-430M-CE5/ST/WL/-R10 | 4.3" TFT, WQVGA fan-less with MARVELL XScale PXA270 CPU, 128MB SDRAM, Projected-capacitor multi-touch Panel PC with built-in Windows® CE 5.0 license |
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