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***Display System***

10.1” RISC-based Panel PC

IOVU-210AR-RK39

***Features***

* 10.1” 1280x800 LCD
* Project Capacitive Touch Screen
* CPU: Rockchip RK3399 (Dual-core Cortex-A72 up to 1.8GHz + Quad-core Cortex-A53 up to 1.5GHz)
* OS: Android 7.1
* Boot Flash: 16GB eMMC Nand Flash
* RAM: 2GB LPDDR3-1866
* Grove Interface IOT Sensor connectors

***Specifications***



|  |  |
| --- | --- |
| **Model** | **IOVU-210AR-RK39** |
| Chassis | Color | White |
| Dimensions (WxHxD) (mm) | 282.5 x 174.3 x 26.8 |
| System Fan | Fanless |
| Chassis Construction | PC + ABS plastic |
| Display | Size | 10.1" |
| Resolution | 800(RGB) x 1280 |
| Brightness (cd/m²) | 250 cd/m² (typ.) |
| Contrast Ratio | 800:1(typ.) |
| Pixel Pitch (mm) | 0.0564 (H) × RGB × 0.1692 (V) |
| Viewing Angle (H/V) | 85/85/85/85 Deg. |
| Touchscreen | Project Capacitive |
| Motherboard | CPU | Rockchip RK3399 (Dual-core Cortex-A72 up to 1.8GHz + Quad-core Cortex-A53 up to 1.5GHz) |
| System Memory | 2GB LPDDR3-1866 |
| Storage | SD Card | 1 x Micro SD slot |
| Flash | 16GB eMMC NAND FLASH |
| Communication | WLAN | 802.11 a/b/g/n/ac |
| Bluetooth | Bluetooth V4.1 |
| RFID | 13.56 MHz ISO4443 A/B, read-write capable, ISO 14443A (MIFARE), ISO 14443B (FeliCa) |
| I/O Interfaces | COM port | 1 x RS-232 (4 pin wafer connector)1 x RS-232/422/485 (4 pin terminal block) 2 x UART pin header with 3V (internal) |
| GPIO | 1. x 4 bit (2 in, 2 out)
2. x 2 bit (1 in, 1 out)
 |
| Ethernet | 1 x GbE RJ45 by RTL8211E with PoE (PD) 1 x GbE RJ45 by RTL8211E |
| USB 3.1 Gen 1 | 1 x USB 3.1 Gen 1 (5Gb/s) Type A |
| USB 2.0 | 1 x USB 2.0 Type A2 x USB 2.0 pin header (internal) |
| Others | 3 x I²C sensor connectors (3V) |
| Multimedia | Audio | 2 x Speaker (1.5W), 1 x Digital Mic in |
| Camera | Front 5-megapixel (CMOS) |
| LED Indicator & Button | Indicator | 1 x Power LED 1 x RFID LED |
| Button | 1 x Reset button2 x Volume key ( up / down) on screen 1 x SOS key on screen |
| Power | Power Input | DC 9 V~30 V\* DC input: φ2.5/5.5mm DC Jack\* PoE: IEEE 802.3 at standard (Power Device) |
| Power Consumption | 12V @ 1.1A |
| Reliability | Mounting | Panel mount, In wall cage |
| Operating Temperature | -10°C ~ 50°C with air flow |
| Storage Temperature | -20°C ~ 60°C |
| Humidity | 10% ~ 90%, non-condensing |
| Weight (Net) | 0.85 kg |
| Safety/EMC | CE/FCC Class B compliant |
| OS | Supported OS | Android 7.1 |
| Watch dog timer | Yes |

\* When both DC-in and PoE are connected to the device, the connection with higher voltage will be the main power source.

176.50

100.00

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\* When both DC-in and PoE are connected to the device, the connection with higher volt- age will be the main power source.

**IOVU-210AD**

**Powered device (PD)**

**IOVU-210AR**

**Powered device (PD)**

LAN Cable

LAN Cable

**IEEE 802.3 at Compliant PoE Switch Power Supplying Equipment (PSE)**

Power over Ethernet supported

Both of data transfer and power supply through one single LAN cable.

* Simplify the construction.
* Dual power input design.

**DC**

***Ordering Information***

|  |  |
| --- | --- |
| Part No. | Description |
| IOVU-210AR-RK39-R10-TW | 10.1” TFT-LCD; Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, Camera, WIFI/BT, POE 802.3at, COM port, DIO, 4pin sensor connector, Front Camera, NFC, TW reg, ROHS |
| IOVU-210AR-RK39-R10-CN | 10.1” TFT-LCD; Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, Camera, WIFI/BT, POE 802.3at, COM port, DIO,4pin sensor connector, Front Camera, NFC, CN reg, ROHS |
| IOVU-210AR-RK39-R10-EU | 10.1” TFT-LCD; Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, Camera, WIFI/BT, POE 802.3at, COM port, DIO, 4pin sensor connector, Front Camera, NFC, EU reg, ROHS |
| IOVU-210AR-RK39-R10-US | 10.1” TFT-LCD; Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, Camera, WIFI/BT, POE 802.3at, COM port, DIO,4pin sensor connector, Front Camera, NFC, US reg, ROHS |

***Packing List***

|  |
| --- |
| 1 x IOVU-210AR Device |
| 1 x Wall mount bracket |
| 1 x Screw set |

Options

110.00

26.30

14.60

282.60

The wall mount screw inside the device

do not over 3mm.

***IOVU-210AR-RK39 Dimensions***

***(Unit: mm)***

|  |  |  |
| --- | --- | --- |
| Item | Part No. | Description |
| Power Adapter | 63040-010060-120-RS | Vin:90~264VAC;60W;Φ2.5/Φ5.5/lock |
| In Wall Cage | 41320-0490E4-00-RS | In wall bracket for IOVU-210AR |

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***Display System***

IOVU-

210AR-RK39

5 Megapixels Camera

Wi-Fi Antenna

Digital Microphone Mother Board

OSD Key Pad

Micro SD Slot

**For extend the storage space.**

NFC Module Indicator Pad

2 x 1.5W Speaker LCD

Touch Panel

4-bit GPIO 2 x 2-bit GPIO RS-232

RS-232/422/485

3 x I²C

USB 2.0

USB 3.1 Gen 1

1 x RJ-45 GbE LAN Port

1 x RJ-45 GbE LAN with PoE (LAN 1)

DC Jack

Micro SD Slot