

# AURA-W121-RK3576

IEI's New generation industrial Panel PC



## Features

- » IP65-rated front panel with robust aluminum bezel for harsh industrial environments
- » Flat-bezel PCAP touch with anti-glare / anti-UV coating for clear visibility in bright areas
- » Rockchip RK3576 octa-core SoC with 6 TOPS NPU for edge AI acceleration
- » Front-panel hard keys (hotkeys) for quick access to essential controls
- » PCAP touch with glove-friendly operation
- » Front-facing speakers & integrated camera options, ideal for HMI and vision-assisted applications
- » Rich I/O & wide-range power input (10–28V DC) for industrial integration

## Specifications

| System                   |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| CPU                      | Rockchip RK3576 (Quad Cortex-A72 and quad Cortex-A53, 6 TOPS NPU) |
| On-board Memory          | Onboard 8GB LPDDR5 memory, up to 16GB                             |
| Storage                  | Onboard 64GB eMMC                                                 |
|                          | 1 x SD Slot                                                       |
| I/O Interface            |                                                                   |
| Ethernet                 | 2 x RJ45 By YT8531                                                |
| Audio                    | 1 x Mic in & Line out                                             |
|                          | 2 x internal 2W speaker                                           |
| Expansion                | 1 x board to board connector (Only supports IEI wireless modules) |
|                          | 1 x 3042/52/80 B-key (PCIe Gen2 x1,USB2.0)                        |
|                          | 1 x On-board SIM card socket (hinge type) for M.2 B key           |
| I/O Ports                | 2 x RS232 & 2 x 485 By 1 x DB9                                    |
|                          | 1 x USB Type-C (USB 3.2 Gen1 + Displayport Alt Mode )             |
|                          | 3 x USB 2.0 Type-A                                                |
|                          | 1 x USB 3.2 Gen1 Type-A                                           |
|                          | 2 x CAN2.0 (6-pin terminal block)                                 |
|                          | 1 x Power button                                                  |
|                          | 1 x Reset button                                                  |
|                          | 1 x System LED (Orange)                                           |
| Power                    |                                                                   |
| Input                    | 1 x 2-pin terminal block (10-28V DC)                              |
| Power consumption        | 12V@2.1A (Rockchip® RK3576 with 8GB Memory, 64G eMMC, Debian OS)  |
| Environment              |                                                                   |
| Operating Temperature    | -10°C ~ 60°C                                                      |
| Operating Vibration      | MIL-STD-810H 514.8C-I with SSD                                    |
| Operating Shock          | IEC60068-2-27 half-sine, 5G, 11ms, 100 shocks with SSD            |
| Safety & EMC             | CE/FCC                                                            |
| Humidity                 | 10% to 95%@40°C (non-condensing) ( 50%@60°C )                     |
| Storage Temperature      | -20°C ~ 60°C                                                      |
| IP Level                 | IP 65 compliant front panel                                       |
| Physical Characteristics |                                                                   |

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Color                   | Black                                           |
| Mounting                | Panel Mount,Rack Mount,VESA 100                 |
| Dimensions (LxWxH) (mm) | 298 x 217.50 x 49.30                            |
| Net Weight              | 2.26kg / 3.9kg                                  |
| Construction            | Aluminum front frame and sheet metal rear cover |
| Cutout Dimensions       | 288.60 x 195.10                                 |
| LCD                     |                                                 |
| Size                    | 12.1" (16:10)                                   |
| Resolution              | 1280 x 800                                      |
| Brightness (cd/m2)      | 500                                             |
| Contrast Ratio          | 1200:1                                          |
| LCD Color               | 16.7M                                           |
| Viewing Angle (H-V)     | 170° / 170°                                     |
| Backlight MTBF          | 50000 hrs                                       |
| Touch                   |                                                 |
| Touch Screen            | PCAP with USB interface (anti-UV/AG coating)    |
| Touch Controller        | Capacitive: Litek                               |
| Other Features          |                                                 |
| Camera                  | 720P Wide Angle Fixed Focus                     |
| Function Key            |                                                 |
| Function Key            | 5-key Hot Key                                   |
| OS Compatible           |                                                 |
| OS Compatible           | Android / Debian                                |

## Ordering Information

|                          |                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AURA-W121-RK3576-CFD-R10 | 12.1" 500 cd/m² 1280x800 Panel PC with Rockchip RK3576, 8GB LPDDR5, 64GB eMMC, 2xRJ45, CAN, COM, USB Type-C, black, 10-28V DC input, PCAP touch, Debian 12, R10  |
| AURA-W121-RK3576-CFA-R10 | 12.1" 400 cd/m² 1280x800 Panel PC with Rockchip RK3576, 8GB LPDDR5, 64GB eMMC, 2xRJ45, CAN, COM, USB Type-C, black, 10-28V DC input, PCAP touch, Android 14, R10 |

## Packing List

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| 8 x Panel Mount Kit               | 1 x Terminal block plugs (1x2pin) |
| 1 x Terminal block plugs (2x3pin) | 1 x Screw kit (for installation)  |