

# AURA-W101-RK3576

## IEI's New generation industrial Panel PC

- 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



[www.ieiworld.com](http://www.ieiworld.com)



# AURA-W101-RK3576

The AURA RK3576 series is a flat-bezel industrial panel PC designed for factory automation and smart HMI applications. The IP65-rated front panel protects against dust and water, ensuring reliable operation in harsh environments. It integrates an RK3576 octa-core SoC, LPDDR5 memory, and eMMC storage, supporting Android and Debian for flexible deployment.



## Front-panel hotkey

The front-panel hotkey lets you easily control brightness, volume, and power on/off.



## Rockchip RK3576 SoC

Rockchip RK3576 chip quad-core Cortex A72 & quad-core A53 high-performance SoC, Mali G52 MC3 GPU & 6 TOPS NPU



## Anti-glare and Anti-UV PCAP

With anti-glare and anti-UV coating, the 10-point touchscreen can display clearly without reflection.



## IP65 rated front panel protection

With the IP65 front panel protection rating, this series is more durable and rugged, ensuring reliable operation in harsh industrial environments.



## Built-in Camera

The AURA RK3576 series, equipped with a built-in camera, is perfectly suited for AI facial recognition applications.

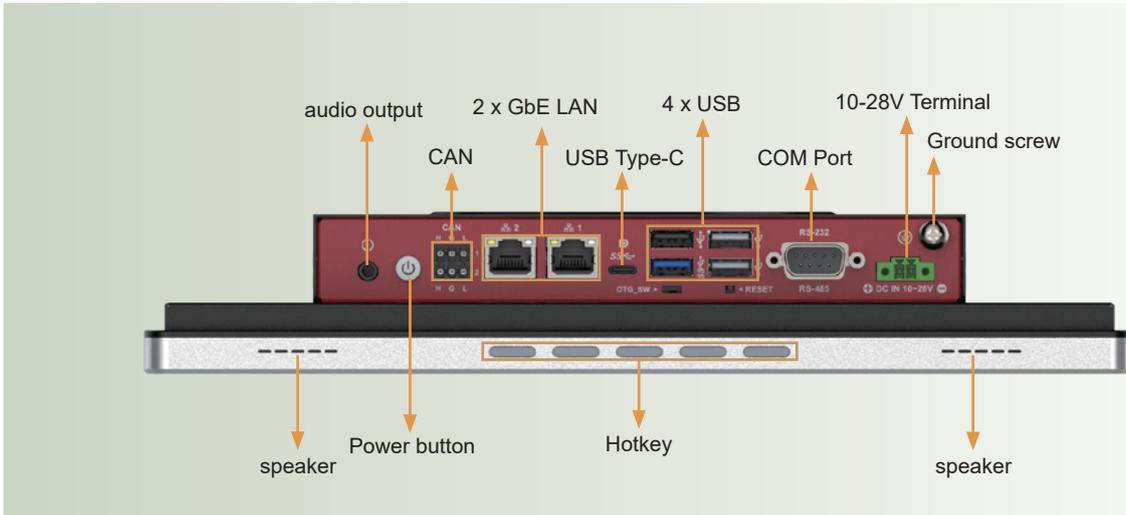


## Front Speakers

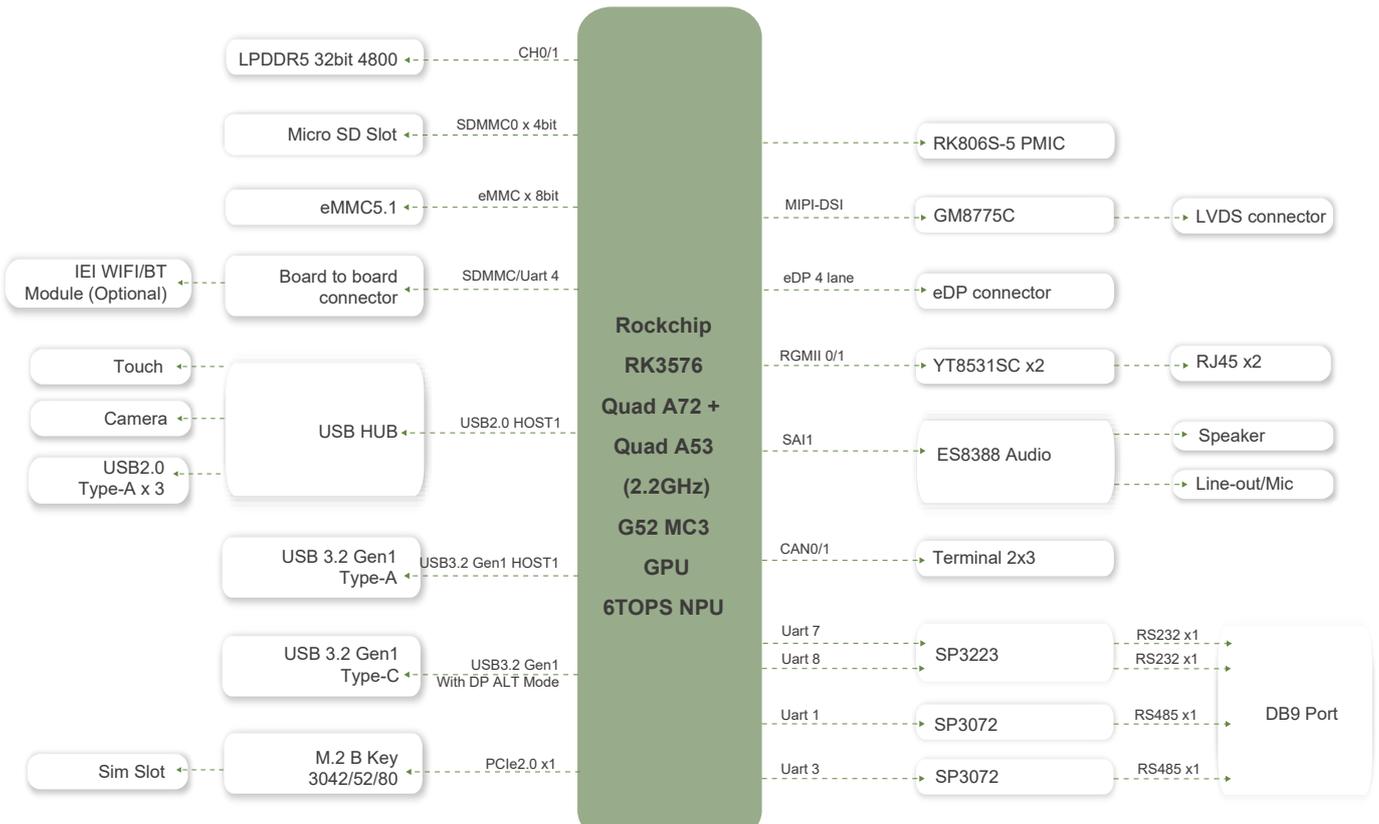
The speakers are positioned at the front to guarantee clear sound delivery, even when panel-mounted.



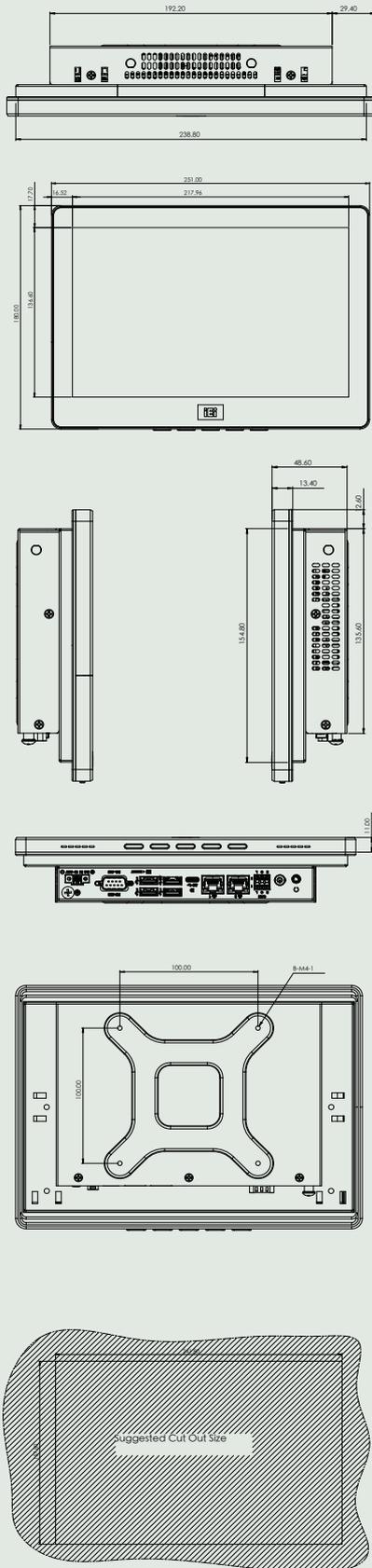
### Fully Integrated I/O



### Block Diagram



### Dimensions (Unit: mm)



### Specifications

Model Name	AURA-W101-RK3576
LCD Size	10.1"(16:10)
Brightness (cd/m <sup>2</sup> )	400
Resolution	1280 x 800
Contrast Ratio	800:1
LCD Color	16.7M
Viewing Angle (H-V)	178°/178°
Backlight MTBF (hrs)	30000
Touch Screen	PCAP with USB interface (anti-UV/AG coating)
Touch Controller	Capacitive:ILITEK
CPU	Rockchip RK3576 (Quad Cortex-A72 and quad Cortex-A53, 6 TOPS NPU)
Memory	8GB LPDDR5, up to 16GB
Ethernet	2 x RJ45 By YT8531C
Expansion	1 x board to board connector(Only supports IEL wireless modules) 1 x M.2 B Key 3042/52/80 (PCIe Gen2 x1,USB2.0) 1 x On-board SIM card socket (hinge type) for M.2 B key
I/O Ports and Switches	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 CAN 2.0 (6-pin terminal block) 1 x 3-pin terminal block
Audio	1 x Mic in & Line out 2 x internal 2W speaker
Storage	64GB eMMC NAND FLASH 1 x SD Slot
Camera	720P Wide Angle Fixed Focus
Hot Key	5-key Hot Key
Construction Material	Aluminum front frame and sheet metal rear cover
Mounting	Panel Mount,Rack Mount,VESA 100
System LED light	1 x Power button 1 x Reset button 1 x System LED (Orange)
Enclosure Color	Black
Dimensions (LxWxH) (mm)	251 x 180 x 48.60
Cutout Dimensions	241.80 x 157.80
Weight (kg)	1.5kg / 3.2kg
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C ~ 60°C
Humidity	10% to 95%@40°C (non-condensing) (50%@60°C)
Vibration	MIL-STD-810H 514.8C-1 with SSD
Shock	IEC68-2-27 half-sine, 5G, 11ms, 100 shocks with SSD
IP Level	IP65 compliant front panel
Safety & EMC	CE/FCC
Power Input	10-28V DC
Power Consumption	12V@1.75A (Rockchip® RK3576 with 8GB Memory, 64GB eMMC,Debian OS)
OS	Android 14 /Debian 12

### Ordering Information

AURA-W101-RK3576-CFA-R10	10.1" 400 cd/m <sup>2</sup> 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
AURA-W101-RK3576-CFD-R10	10.1" 400 cd/m <sup>2</sup> 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

### Options

Item	Part No	Description
Stand	STAND-C19-R10	VESA 100x100mm/75x75mm PPC/Monitor Stand, support up to 15kg, Black color
Stand	STAND-A21-R10	VESA 75x75mm/100x100mm PPC/Monitor Stand, support from 6 KG to ~12 KG, Black
Wall Mount	AFLWK-19B	Wall mounting kit with lock
Power Adapter	63040-010060-211-RS	Adapter Power:FSP:FSP060-DHAN3:9NA0608097;-Vin:90~264VAC;60W;Dim:62.0*110*31.5mm;Plug=7.5mm;Cable=1200mm;Erp(NO LOAD 0.21W);Vout:12VDC;Φ2.5/Φ5.5/lock
Power Cord	32702-003600-100-RS (EU)	POWER CORD:EUROPEAN CODE(VDE); 1000mm; (A)PLUG:LT-322(16A 250V); (B) CONNECTOR:LT-501(10A 250V)
DC Power Cable	32102-045700-100-RS	DC POWER CABLE; 200mm; (A)DC JACK 5.5*2.5; (B)TERMINAL BLOCK 2P P=3.5 180°
WIFI Module	iWB-AP6275SDSR-EA-R10	WiFi+Bluetooth Module, AP6275SDSR, 2T2R, 802.11 a/b/g/n/ac/ax Wi-Fi + BT 5.3; with external WIFI 6 antenna, FCC/CE/TELEC/NCC

### Packing List

Item	Part No	Q'ty
Panel Mount Kit	19XM0SFE0-0004601-000-RS	8
TERMINAL BLOCKS 1x2	33502-000203-RS	1
TERMINAL BLOCKS 2x3	33502-000672-RS	1
Screw pack	44033-040062-RS	1