



AIO-200-ROK^{SERIES}

ARM-BASED ALL-IN-ONE INDUSTRIAL TOUCHSCREEN COMPUTER

COMPACT, INTERACTIVE, AND DURABLE SIMPLE
APPLICATION SOLUTION FOR HUMAN MACHINE
INTERFACE (HMI) DEPLOYMENTS



AIO SERIES ALL IN ONE INDUSTRIAL TOUCHSCREEN COMPUTER

Premio delivers a streamlined all in one touchscreen computer with reliable, versatile, and efficient features.



All In One Integrated
System



Zero Downtime &
Upgrades



Efficient Compute
Performance



Seamless Application
Integration



Durable. Flexible. Connected.

As industrial environments grow increasingly connected and digitized, the demand for durable, power-efficient, and flexible HMI solutions continues to rise. The AIO-200-R0K Series from Premio meets this demand head-on with an all-in-one design that brings touchscreen computing to the edge. Built for Industry 4.0, this solution offers seamless integration into SCADA systems, smart kiosks, industrial control panels, and IoT dashboards—empowering operators with real-time data access and responsive control.

Powered by the Rockchip RK3568J ARM processor, the AIO-200-R0K Series delivers stable performance with low power consumption. It supports both Android 13 and Debian 11 operating systems and comes in two display sizes—10.1" and 15.6"—to fit different deployment needs. Its fanless design, rugged IP65-rated front panel, and MIL-STD-810G shock and vibration compliance make it ideal for challenging environments that demand durability and reliability.

Key Features

- Rockchip RK3568J Quad-Core Processor
- Android 13 & Debian 11 OS Support
- 10.1" & 15.6" Touch Displays with IP65, 7H, IK07 Protection
- Dual LAN, USB 3.0, HDMI, COM, CAN Bus, Audio Out
- M.2 Expansion for Wi-Fi 6, Bluetooth, and 4G LTE
- Fanless Design with Wide Temperature & MIL-STD-810G Compliance

Key Markets and Applications



Industrial
Human-Machine
Interfaces (HMI)



SCADA
Control Panels



Smart Retail &
Interactive Kiosks



IoT Sensor Gateways
& Dashboards



Traffic Management
& Transportation
Displays

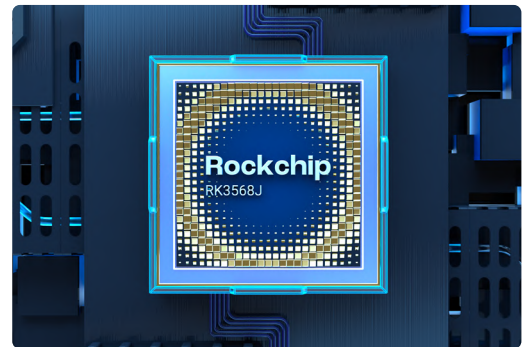


Smart Building
& Infrastructure
Monitoring



Rockchip RK3568J Processor

At the core of the AIO-200-R0K Series is the Rockchip RK3568J, a quad-core ARM Cortex-A55 system-on-chip (SoC) designed for low-power, high-efficiency performance in embedded environments. Built on a 22nm process, this SoC strikes the ideal balance between processing power and thermal management—making it perfectly suited for fanless, all-in-one industrial deployments. With clock speeds up to 2.0 GHz, it supports smooth multitasking for HMI interfaces, real-time data collection, and lightweight edge AI inference.



To complement the processor's efficiency, the system includes 4GB of LPDDR4 memory soldered directly onto the board, operating at 2133 MHz. This configuration enables fast data access with low latency, while maintaining energy efficiency critical for always-on industrial systems. The integrated GPU and multimedia engine further support smooth video playback and responsive user interfaces—making the AIO-200-R0K a powerful and compact solution for modern industrial control environments.

- Rockchip RK3568J Arm Quad Cortex-A55, up to 2.0 GHz
- 4GB LPDDR4 2133 MHz

OS Compatibility & Benefits

The AIO-200-R0K Series supports both Android 13 and Debian 11 operating systems, offering flexibility across a wide spectrum of industrial and embedded use cases. Android 13 is optimized for intuitive touchscreen applications and fast deployment in kiosk or retail environments. Debian 11, on the other hand, provides a robust, open-source Linux platform for developers seeking more control, customization, and secure integration into OT/IT systems. This dual OS compatibility ensures long-term scalability and adaptability based on workload requirements.





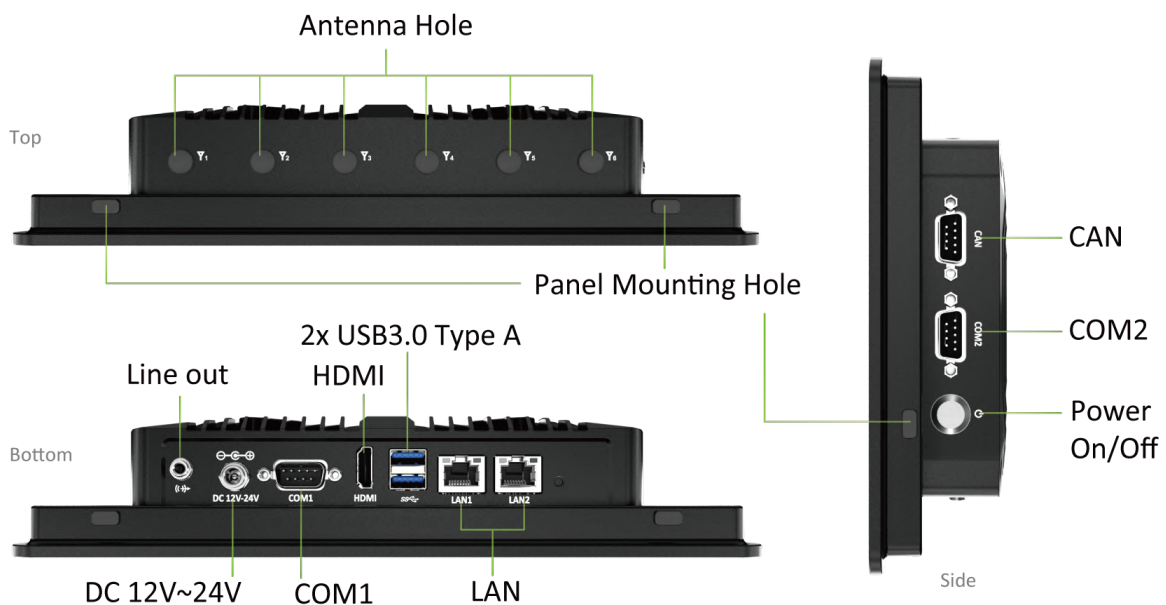
Display & Touch Technology

Available in 10.1" WXGA and 15.6" Full HD variants, the AIO-200-ROK Series features high-brightness projected capacitive touchscreens with rich 16.7M color support and ultra-wide viewing angles. Both sizes are built with ruggedized features for industrial applications: IP65-rated front panels for water and dust resistance, 7H surface hardness for scratch protection, and IK07 impact durability to withstand physical contact in high-traffic environments. The ten-point multi-touch capability enables responsive control for modern HMI workflows, even with gloved hands.



Connectivity & I/O Options

Designed for industrial interoperability, the AIO-200-ROK Series offers a comprehensive I/O configuration. It includes dual LAN ports, two USB 3.0 Type-A ports, an HDMI output supporting up to 4K resolution, two COM ports, and one CAN bus interface. For audio applications, a 3.5mm line-out jack is also available. In addition, the system supports up to six external antennas, providing flexibility for wireless networking and signal coverage in distributed edge environments.





Scalable M.2 Expansion for Wireless Connectivity

To meet diverse connectivity and data transmission needs, the AIO-200-ROK Series integrates two M.2 expansion slots. The M.2 E Key supports Wi-Fi 6 and Bluetooth for fast, reliable wireless communication. The M.2 B Key allows for 4G LTE cellular module installation, enabling remote connectivity in off-grid or mobile applications. This modular expansion architecture ensures that the system can scale with evolving network requirements, from local mesh networks to cloud-based IoT deployments.



Certifications & Environmental Reliability

Engineered for reliability in semi-outdoor and industrial deployments, the AIO-200-ROK Series is built to operate in harsh environments with minimal maintenance. Its fanless, solid-state design eliminates moving parts and enhances durability in dust-prone or vibration-heavy conditions. With an operating temperature range of -20°C to 60°C, the system is suitable for a wide variety of rugged edge applications.

The AIO-200-ROK Series has been tested to meet MIL-STD-810G standards for shock (20G half-sine, 11ms) and vibration (2.4 Grms, 5-500 Hz, 0.5 hr/axis), ensuring reliable performance in environments subject to physical impact and motion. It also meets globally recognized industrial certifications including UL, CE, and FCC Class A, ensuring safe and reliable operation in regulated environments.



WE DESIGN,
MANUFACTURE, AND
SERVICE CUSTOMERS
AROUND THE WORLD



AIO-200-ROK Series



Model	AIO-W210-RK3568J	AIO-W215-RK3568J
LCD Size	10.1" (16:10)	15.6" (16:9)
CPU	Rockchip RK3568J Arm Quad Cortex-A55, up to 2.0 GHz	
Memory	4GB LPDDR4 2133 MHz	
Display	WXGA (1280x800), 500 nits	Full HD (1920x1080), 500 nits
Touch Technology	Projected Capacitive Touch, 10-point	
Rugged Protection	Front IP65, 7H Glass Hardness, IK07 Impact Protection	
Storage	64GB eMMC for OS	
Expansion	1x M.2 E Key (2230) – Wi-Fi 6 / Bluetooth 5.2, 1x M.2 B Key (3042) – 4G LTE	
I/O	2x COM Ports, 2x USB 3.0 Type A, 2x GbE LAN (RJ45), 1x HDMI (up to 4K), 1x Audio Line-out, 1x CAN Bus	
Antenna Support	Supports up to 6 external antennas (optional)	
Power	AT/ATX (Optional), DC 12~24V 60W Adapter (12V Default)	
Operating Temperature	-20°C to 60°C	
Certification	UL, CE, FCC Class A	
Dimensions (WxHxD)	256 x 170 x 50 mm	400 x 249 x 50 mm