

INDUSTRIAL ANDROID PC

IPC-A-15



INTRODUCTION

Rugged Construction

- Enclosed in a metallic chassis (usually aluminum or steel) for durability.
- Resistant to shock, vibration, dust, and electromagnetic interference.

Fanless Design

- Utilizes passive cooling with heat sinks.
- Eliminates moving parts → lower maintenance, silent operation, longer lifespan.

Wide Temperature Support

- Industrial-grade PCs can operate from -10°C to +60°C, or even wider ranges depending on the model.
- Ensures stable performance in extreme climates (factory floors, outdoor kiosks, vehicles)

Flexible I/O Interfaces

- Multiple COM ports (RS232/422/485) for legacy and modern machines.
- Gigabit LAN ports for fast and reliable networking.
- USB, VGA, HDMI
- Compact & Space-Saving

Compact & Space-Saving

- Small footprint allows easy integration into control panels, cabinets, or kiosks.
- panel or wall-mounting options for industrial environments.

High Reliability Features

- Watchdog timer to automatically restart in case of system hang.
- One-key restore for quick system recovery.
- Diskless boot support for secure and efficient operations.

Energy Efficient

- Optimized for low power consumption, ensuring long-term cost savings.
- Ideal for 24/7 continuous operation.



System Specifications	
Processor (CPU)	Rockchip RK3568, up to 2.0 GHz
GPU	ARM G52 2EE GPU
Memory (RAM)	2GB DDR4 standard (Optional: 4GB / 8GB)
Internal Storage	16GB eMMC standard (Optional: 32GB / 64GB / 128GB / 256GB / 512GB)
NPU	1 TOPS NPU
LAN	2 × RTL8201F 10/100 Mbps Ethernet

I/O Interfaces	
Power Switch	1 × Power button (Always ON)
Power Input	1 × DC IN 12V (Optional wide voltage 9–36V)
HDMI	1 × HDMI
Audio	1 × Audio combo (Mic-in / Line-out)
LAN	2 × Ethernet ports
Upgrade Button	1 × Upgrade button
USB	2 × USB 3.0 (1 × Host, 1 × OTG)
Serial Ports	4 × COM (2 × RS232, 2 × RS232 / RS485)
GPIO	4 × GPIO
SIM Slot	1 × SIM card slot

Expansion & Features	
Expansion Slot	1 × Mini-PCle slot (Supports 4G / 5G modules, optional)
Watchdog	Software watchdog supported

Operating System Support	
Operating System	Android 11 / Ubuntu 20.04 / Debian 11

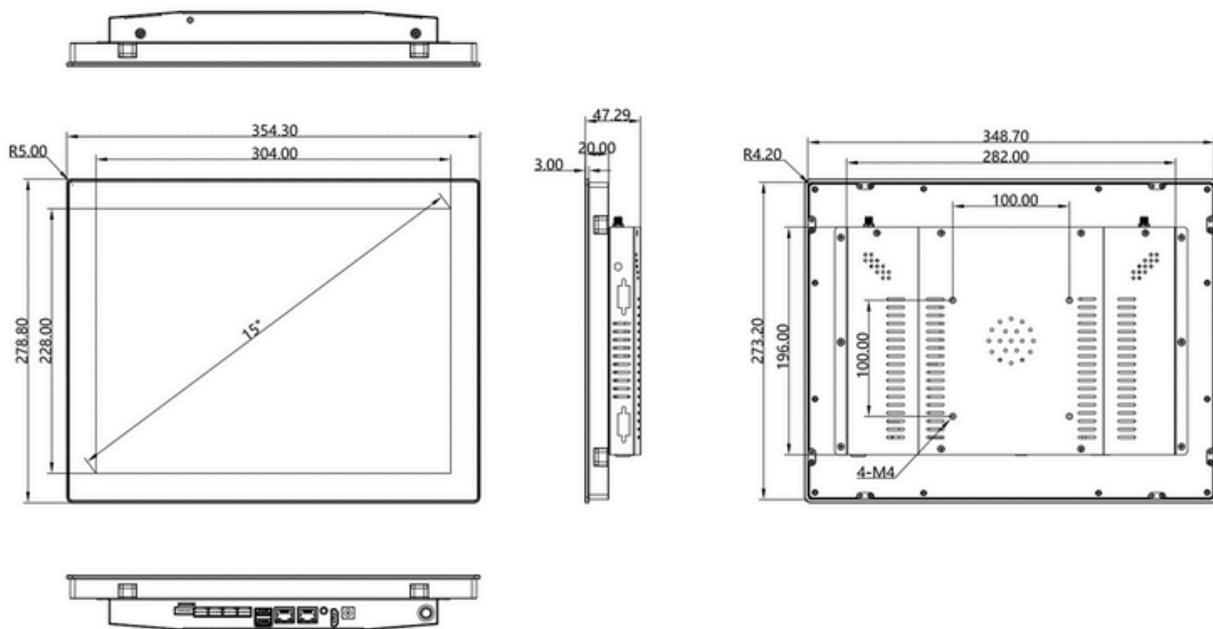
LCD Display	
Screen Type	15-inch Industrial LCD (LED backlight)
Resolution	1024 × 768
Viewing Angle	89° / 89° / 89° / 89° (Typ., CR ≥10)
Brightness	450 nits
Contrast Ratio	1000 : 1
Backlight Lifetime	≥ 30,000 hours

Touch Screen	
Type	Projected Capacitive Touch
Touch Points	10-point multi-touch
Interface	USB
Light Transmission	≥ 80%

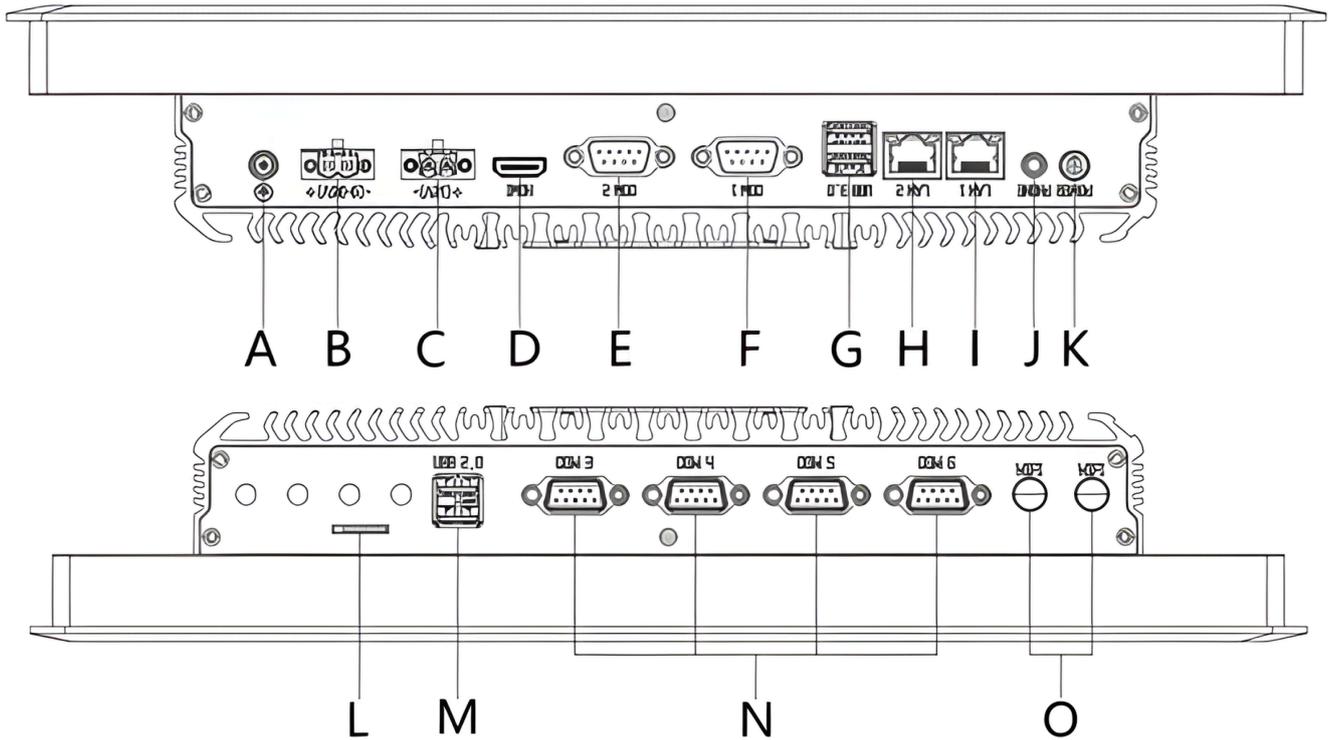
Environmental Conditions	
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-20 °C to +70 °C
Humidity	5% – 95% RH, non-condensing

Display Resolution

Type	Resolution	Screen Ratio / Scale
10.4" LCD	1024 × 768	4:3
12.1" LCD	1024 × 768	4:3
15" LCD	1024 × 768	4:3
17" LCD	1280 × 1024	5:4
19" LCD	1280 × 1024	5:4
13.3" LCD	1920 × 1080	16:9 (H:V)
15.6" LCD	1920 × 1080	16:9 (H:V)
18.5" LCD	1920 × 1080	16:9 (H:V)
21" LCD	1920 × 1080	16:9 (H:V)
23.6" LCD	1920 × 1080	16:9 (H:V)
27" LCD	1920 × 1080	16:9 (H:V)



I/O View



A. GND	E. COM2	I. LAN1	M. 2*USB2.0
B. DC 9-36v(optional)	F. COM1	J. PHONE	N. COM3-COM6
C. DC 12V	G. 2*USB3.0	K. POWER	O. WIFI
D. HDMI	H. LAN2	L. SIM	



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