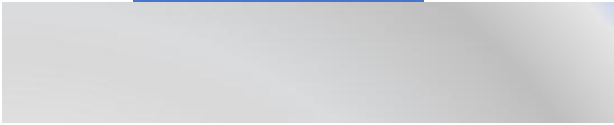


AP-AR1DS01 | Low-Power RK3568 Industrial Panel PC | BITECH



Features:

- RK3568, Quad Core @2.0GHz
- IP65 front Panel bezel, 10-Points touchscreen
- Wide voltage: 9–36V DC input, Phoenix terminal, remote power on/off;
- Fanless, cable-less, jumper-less, and unibody aluminum alloy design with multi-mount (wall, side, VESA).
- Support **Ubuntu**, Embedded software



SKU	AP-AR1DS01	
Product type	Industry PANEL PCs (Fanless, IP65 rated front bezel)	
Product color	Extruded Aluminum with Heavy Duty Metal	
Operating system	Android 12 / Ubuntu 22.04 / Debian 11	
PROCESSOR/RAM/STORAGE		
Processor Name	RK3568, Quad Core A55 @2.0GHz	
Display Type	10.1" HD 1280*800 @ 60 Hz, 16: 10, Brightness: 400-1000 nits	
GPU	Mali-G55	
NPU	1.0 TOPS	
Touchscreen	10-Points capacitive touchscreen, Surface handness: ≧ 6H (JIS-5400)	
EMCC	On board 4 GB DDR4 2600MHz + 64GB EMCC, up to 16GB RAM +128GB EMCC	
Graphics		
Graphic card	Mali-G52	
Display	LVDS/MIPI-DSI	
CONNECTIVITY AND COMMUNICATIONS		
Network interface	Intergrated 2x LAN 10/100/1000	
4G/5G	1x M.2 B-Key (PCIe+USB3.0, 4G/5G Module), 1x Slim slot	
Wireless	1x M.2 E-Key (PCIe_1X, Wifi module)	
INTERFACE		
I/O ports	USB	2x USB2.0
	Display	1x HDMI 2.1, 4K@60Hz
	COM	1x RS232, 1x RS485
	LAN	Intergrated 2x LAN 10/100/1000
	Audio	1x 3.5mm Combo audio jack
Power		
Power input	1x DC 9-36 v, ⌀5.5x 2.5 mm	
	1x Phonex termial	
	1x Remote Power On/Off, 2-pin Terminal Block	
Environment		

Operation Temperature	• -10°C to +60°C * PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling) * With extended temperature peripherals; Ambient with air flow * According to IE61000-3-2, IE61000-3-3
Storage Temperature	-20°C to +70°C
Relative Humidity	• 95% RH @ 70°C (Non-condensing)
Shock	15G, 11ms
Vibration	5 - 500 Hz/1 Grms
EMC	• CE, UKCA, FCC, ICES-003 Class A • EN61000-6-4, EN61000-6-2 (24VDC Input Only)
EMI	• CISPR 32 Conducted & Radiated: Class A • EN/BS EN 55032 Conducted & Radiated: Class A • EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A • EN/BS EN61000-3-3 Voltage fluctuations & flicker • FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
EMS	• EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV • EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 10 V/m • EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 1 kV; Signal: 1 kV • EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV • EN/IEC 61000-4-6 CS: 10V (**Compliant with the standard when utilizing shielded ethernet cable.) • EN/IEC 61000-4-8 PFMF: 50 Hz, 30A/m • EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 1 cycles at 60 Hz
Dimensions And Weight	
Dimensions (W x D x H)	210x 150x 70 mm
Weight	1.8 kg
Mounting	• Wall / VESA Mount / Open frame
Physical Design	• Fanless Design • Cableless Design • Jumper-less Design • Unibody Design

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BITECH provides scalable hardware platform solutions with optional SDK and OS customization for fast system integration