01 Product Overview

Vibration · Shock · Lightning · Dust/Oil · ESD · Wide Temp. · EMI

15.6"



The EA-W15-R300 is an industrial panel terminal that integrates edge AI computing with a 15.6-inch industrial touch display. Powered by the EA-R300 fanless edge AI computer as its computing core, it features a Rockchip RK3588 octa-core 64-bit processor with a 6 TOPS NPU, and integrates a 15.6-inch 16:9 FHD industrial LCD with P-CAP 10-point capacitive touch, with front panel IP65 protection. The unit supports 6 USB ports, 2 Gigabit Ethernet ports (expandable to 4), RS485/CAN/8DI+8DO industrial interfaces, and adopts 9—36V wide voltage power input and fanless cooling design, suitable for machine vision, production line HMI, equipment control, and edge AI inference scenarios.

Features

FlexCore · P-CAP · Fanless · 9~36V · Dual LAN · Wi-Fi · SIM · USB 3.0 · USB 2.0 · Type-C · HDMI · RS-232 · RS-485 · CAN BUS · VESA Mount · TF Card

Certifications

CE · FCC · ISO9001

Key Features

- ★ Display: 15.6-inch 16:9 industrial-grade FHD TFT LCD, resolution 1920×1080, brightness 350 cd/m², colors 16.7M;
- ★ Touch: Projected capacitive P-CAP 10-point touch, supports glove operation, front panel IP65 protection;
- ★ Core: Rockchip RK3588 octa-core 64-bit processor, 4×Cortex-A76 + 4×Cortex-A55, integrated Mali-G610 MC4 GPU;
- ★ Edge AI: Integrated 6 TOPS (INT8) NPU, supports visual recognition, object detection, and edge AI inference;
- ★ Flexible Storage: 4GB/8GB/16GB LPDDR4X memory, 128GB—1TB storage optional;
- ★ Rich I/O: 6 USB (including USB 3.0 and Type-C), 2 Gigabit Ethernet ports (expandable to 4), 2 RS485 (configurable as RS232), CAN, and 8 DI + 8 DO;
- ★ Wireless Expansion: Supports Wi-Fi wireless communication, built-in TF card slot and SIM card slot, optional 4G full network;
- ★ Modular Architecture: FlexCore™ core module separated from industrial carrier board, supports flexible configuration and project customization;
- ★ Industrial Design: 9—36V wide voltage input, auto power-on, fanless passive cooling;
- ★ Flexible Installation: Supports VESA 100×100 wall mount, panel mount, and desktop stand.

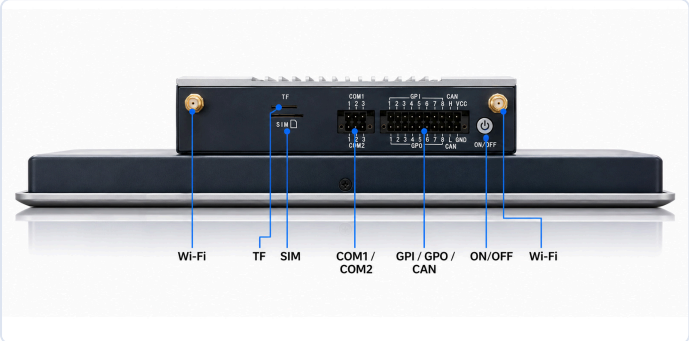
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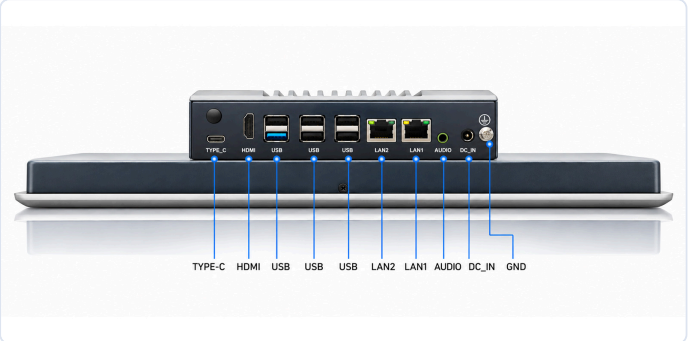
02 Product Images





03 I/O Interface





04 Technical Specifications

• Touch & Display

Parameter	Specification
Display Size	15.6" (16:9)
Display Type	FHD TFT LCD
Resolution	1920 × 1080
Colors	16.7M
Brightness	350 cd/m²
Contrast Ratio	500:1
Backlight Lifetime	50,000 hrs
Touch Method	Projected capacitive touch (P-CAP), 10-point
Touch Protection	IP65 (front panel)

Core Hardware

Parameter	Specification
Processor	Rockchip RK3588, 8-core 64-bit
CPU	4 × Cortex-A76, up to 2.4GHz + 4 × Cortex-A55, up to 1.8GHz
NPU Computing Power	6 TOPS (INT8)
GPU	Arm Mali-G610 MC4
Power Consumption (Core Board)	12W
Video Decoding	H.265/VP9/AVS2: up to 8K@60fps; H.264: up to 8K@30fps; AV1: up to 4K@60fps
Video Encoding	H.264/H.265: up to 8K@30fps
Memory	LPDDR4X, 4GB/8GB/16GB optional
System Storage	128GB/256GB/512GB/1TB optional

I/O Interfaces

Parameter	Specification
USB 3.0	1 × USB 3.0 Type-A
USB 2.0	5 × USB 2.0 Type-A (standard configuration); 1 × USB 2.0 Type-A (four Ethernet port configuration)
Type-C	1 × Type-C
Ethernet	2 × Gigabit RJ45 ports (standard configuration); 4 × Gigabit RJ45 ports (optional configuration)
CAN	1 × CAN bus interface
Serial Port	2 × RS485, configurable as RS232
GPIO	8 × digital input + 8 × digital output
HDMI	1 × HDMI, supports HDMI 2.0/2.1 configuration
Audio	1 × headphone/microphone combo jack
TF	1 × TF card slot
SIM	1 × SIM card slot, supports 4G full network
Wireless Network	Supports Wi-Fi wireless communication (optional)

Power Input

Parameter	Specification
Power Connector	DC5521
Input Voltage	DC 9—36V wide voltage input
Auto Power-On	Supports auto power-on

Product Attributes

Parameter	Specification
Dimensions	404.2 (W) × 253.5 (H) × 66.6 (D) mm
Installation Dimensions	388.0 (W) × 237.3 (H) mm (body embedding dimensions; add 2mm to each side of panel opening)
Weight	4.3 KG net weight
Chassis Material	6061 high-strength aluminum alloy
Mechanical Structure	Aluminum extrusion + sheet metal structure
Mounting	Panel mount / Wall mount / Desktop stand / VESA 100×100 mm
Cooling System	Fanless passive cooling
MTBF	60,000 hrs

Operating Environment

Parameter	Specification
Operating Temp.	0~50℃ (wide temp. optional)
Storage Temp.	-10~60℃ (wide temp. optional)
Humidity	10%~95%, non-condensing
EMC	CE, FCC (EN 55032 & EN 55035)
EMC Harmonics	EN IEC 61000-3-2

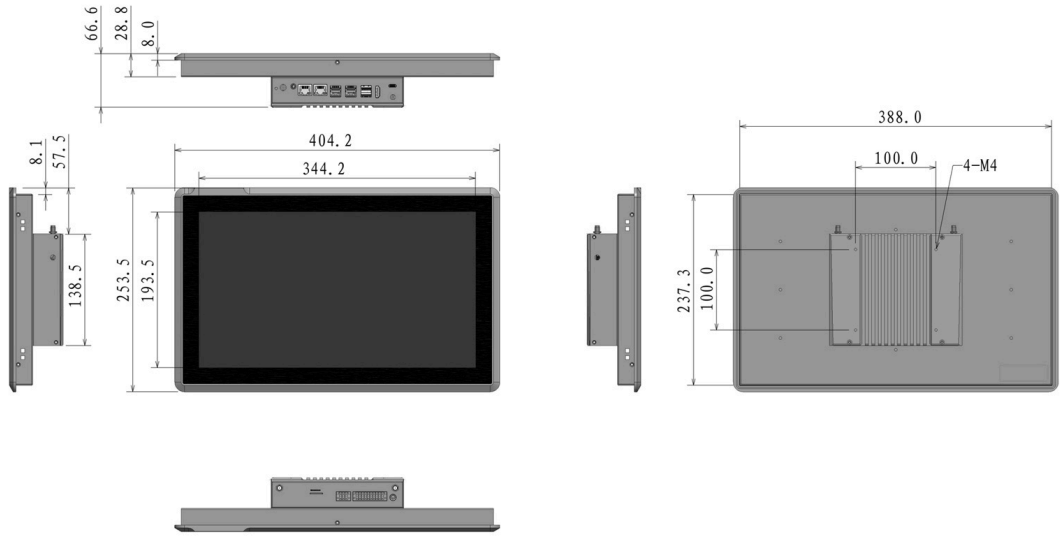
Certifications & Compliance

Parameter	Specification
Factory Cert.	ISO9001: 2015
Product EMC Compliance	CE, FCC
EMC Reference Standards	EN 55032, EN 55035
Boot Logo Customization	Supports boot logo customization

Operating System

Parameter	Specification
Operating System	Android 12 / Linux (Kernel 5.10)

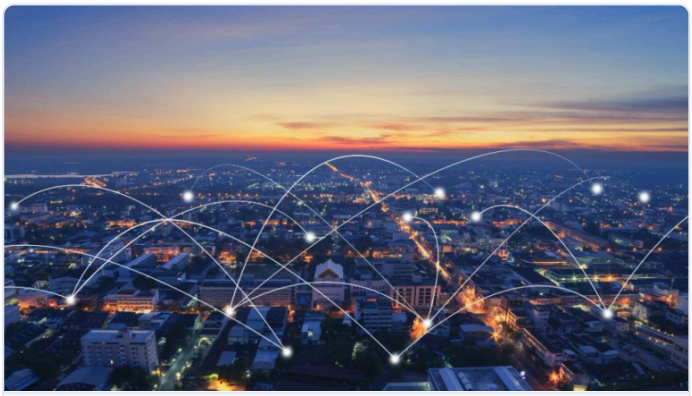
05 Mechanical Dimensions



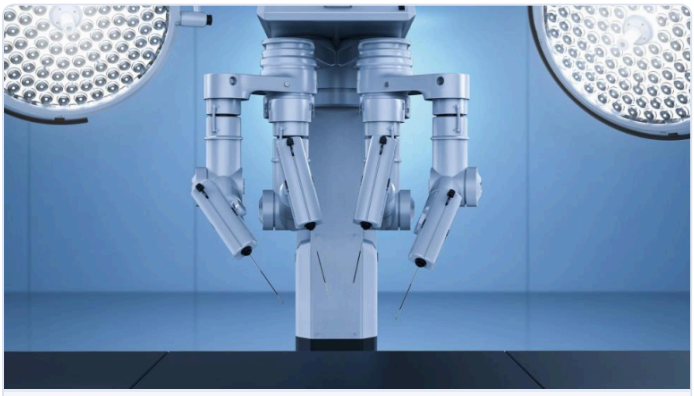
06 Applications



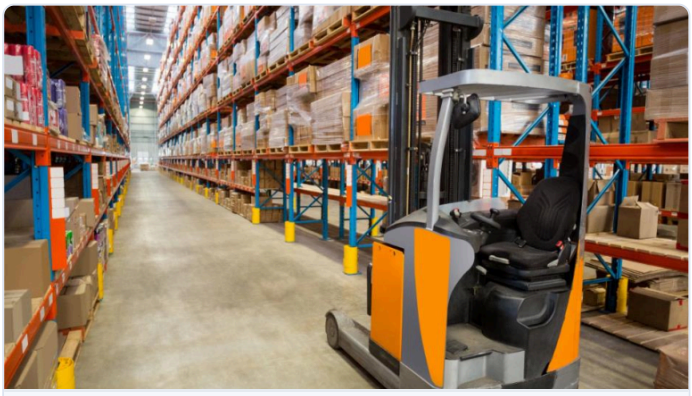
Edge AI



Industrial Gateway



Machine Vision



Integrated Computing & Control

07 Ordering Information

NO.	Model	Part No.	Processor	Memory	Storage
1	EA-W15-R300	C12.02.02.002	Rockchip RK3588	8GB	128GB

※ Note: Flexible I/O configuration, standard with 6 USB and 2 Gigabit Ethernet ports; 4 USB 2.0 can be replaced with 2 Gigabit Ethernet ports to achieve 4-port configuration. The unit is integrated by the EA-R300 fanless edge AI computer and 15.6-inch industrial touch screen; specific specifications subject to actual delivery, please consult company business for details.

※ Specifications subject to change without notice. Data measured under standard test conditions.
For customization or support, contact CESIPC: 0755-85286060 · sales10@cesipc.com · www.cesipc.com
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