The machine is made of aluminum alloy material, strong structure, fully closed without fan design, efficient heat dissipation, designed for a variety of complex harsh environment. Can provide SDK package and technical support, support secondary development and rapid upgrade customization, widely used in industrial control, military, communications, electric power, network and other automation fields.

Features

- Aluminum alloy one-piece die casting, efficient heat dissipation
- Process structure design of anti vibration radiation layout
- Seismic stability, safety and reliability, industrial quality
- Self-developed ARM architecture industrial motherboard
- Comply with EMC anti-electromagnetic interference standard
- Provide SDK package and support secondary development

RK3399 Hexa-Core	-10℃~60℃	DC 12-36V	Rich Interfaces	Anti-seismic	SDK

Product Model

Product Size	12"
Non-touch	
Capacitive touch	
Resistive touch	

Product Interface

Industrial terminals	LED	POWER	Wifi	GND	DC 12-36V	USB	OTG	TF/SIM	HD	LAN	Audio I/O	UBOOT	COM

Product Size

Physical Characteristics

Overall dimensions	W297.97X H236.5X D61MM
Size of opening	W287.97X H226.5MM

Interface Parameters

Power interface	1*DC (5.5*2.1mm), Supporting 12V-36V power input
Industrial terminals	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/TTL*1/GPIO*3)
USB	2*USB (1*USB,1*OTG)
TF	1*TF card standard interface
HDMI	1*HDMI, Supporting HDMI data output, Up to 4K
SIM	1*SIM, Supporting various formats (Depending on 3G/4G module)
Network interface	1*LAN, 10M/100M/1000M adaptive Ethernet
Audio interface	1*Audio I/O, Support audio input and output
COM	1*RS232
Reset key	Support (1*UBOOT)
WiFi antenna	1*WiFi antenna
Grounding post	1*Grounding post (GND)

Product Specifications

Screen Parameters

LCD size	12" TFT LCD
Resolution	1024*768 (4:3)
Viewing angle	85/85/85/85 (L/R/U/D)
Color	16.7M
Brightness	500 cd/m²
Contrast ratio	1000:1

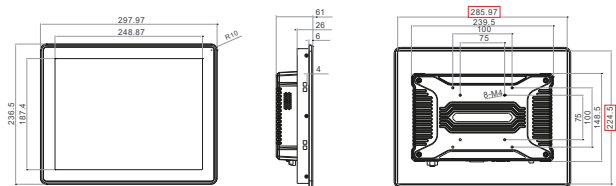### Touch Parameters

Touch type	10-point touch projection Capacitive touch screen	Single-point Resistance touch screen	Non-touch
Transmittance	≥88%	≥78%	≥92%
Input mode	Handwriting or Capacitance pen	Fingertip or stylus	/
Controller communication	USB	USB	/

Product Reliability Parameters

Working temperature	-10°C~60°C
Storage temperature	-20°C~70°C
Relative humidity	Humidity: 95% Non-Condensing
Vibration protection	IEC 60068-2-64, Random, 5~500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, Half sine wave, Lasting for 11ms
Waterproof grade	The front panel reaches IP65 protection level

Power Parameters

Power input	DC 12V-36V
Static power	18W

Hardware Configuration

CPU	RK3399 2.0 GHz, Dual-Core Cortex-A72 + Quad-Core Cortex-A53
Memory	4GB DDR3 (Supports up to 4GB)
Storage	64GB eMMC (Supports up to 256GB)
GPU	Mali-T860 MP4

WiFi	Dual-band 2.4G/5G
Bluetooth	Support Bluetooth 5.0
Operating system	Android 7.1/9.0/11, Linux4.4/Ubuntu18.04/Debian10
Other	Support RTC real-time clock and timing switch