

ESY-A1002

10.1" Capacitive ARM Touch PC

Features

- 10.1" Display Size
- Amlogic S905D3, Quad-Core Cortex-A53
- Capacitive, 10-Point Multi-Touch
- 1280 x 800 Resolution
- 350 nits Brightness
- Android 9, Linux Ubuntu 22.04, Debian 12 Optional OS
- Operating Temp: -10°C to 60°C
- CE, FCC Certification

Appearance





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Revision Table

Date	Revision	Content	By
2025/9/4	0.1	First Draft	Zoe You

ACT POWER TAIWAN
Preliminary

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10.1" Capacitive ARM Touch PC

Specification

Display	
Display Size	10.1"
Aspect Ratio	16:10
Resolution	1280 x 800
Active Area	216.96 x 135.60 mm
Brightness	350 cd/m ²
Contrast Ratio	800:1
LED Life Time	30,000 Hrs.
Viewing Angle	170° / 170°
Display Interface	LVDS
System	
Processor	Amlogic S905D3
Chipset	Quad-Core Cortex A-53
Standard Operating System	Android 9, Linux Ubuntu 22.4, Debian 12 (Optional)
RAM Size	2 GB LPDDR4
EMMC Size	64 GB eMMC 5.1
GPU	Mali G31 MP2
NPU	1.2 Tops
Loudspeaker	2 x 2W
WiFi + BT	RTL8821 + Bluetooth 4.0
SD Card Slot	1
CAN	USB-to-CAN
USB	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
Ethernet Network	1 x Gigabit LAN (10/100/1000 Mbps)
Serial Port RS232	1 x RS232 (RX / TX only)

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Specification

Touch Panel	
Touch Type	Projected Capacitive 10-Point Multi-Touch
Printing Type	Organic
Glass Thickness	1.1 mm
Cover Glass Surface	AG
IK Protection	IK7
Printing Color	RAL9004 (Black)
Strengthening	Thermally Strengthened
Touch Controller	EXC81W60
Touch Interface	USB
Touch Resolution RX	39
Touch Resolution TX	24
Certification	
Certification	CE, FCC
Chassis	
Case Design	Rubber Frame Sealing
IP Protection	IP65 Front / IP40 Back
Case Color	RAL9004 (Black)
Case Coating	Powder Coating
Case Material	Aluminum
Case Size	278.0 (L) x 203.6 (W) x 43.3(H) mm
Cut-Out for Clamp Supports	264.0 (L) x 196.0 (H)
Max. Wall Thickness for Clamp Supports	5.0
Amount of Clamps Required	4
Mounting	VESA 100 x 100

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Specification

Power	
Power Indicator	Green LED
Working Power	12V
Power Consumption	8.5W
Stand-by Consumption [Android / Ubuntu]	<1W / <3W
Weight	
Net Weight	~2.00 kg est.

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Environmental Compliance

Operating Temp.	-10°C to +60°C
Storage Temp.	-20°C to +60°C
Humidity Range	10% to 90%

Environmental performance may vary according to the integration method or final integration scenario.

Deliverables

No.	Item
1	10.1" Capacitive ARM Touch PC
2	Power Adapter (100-240V ACDC Active Switching; 12X DC-Out)
3	WiFi Antenna (RP-SMA Female)
4	User Manual

Ordering Information

Model Name	Description	Unit
ESY-A1002	10.1" Capacitive ARM Touch PC	1