PRODUCT SPECIFICATION

10.1-inch ARM Touch Panel PC

AYTJ101-H

RK3568 quad-core | Dual isolated RS485 | Dual Gigabit LAN



10-point capacitive touch | Aluminium frame | Industrial HMI

Android 11 recommended; Ubuntu 18.04 / 20.04 optional.

Revision V5.0 2026-10-17

Updated product views, annotated interfaces, connector drawings and hardware configuration.

Contents & revision history

1 Product overview 3

1.1 Applications / 1.2 Overview / 1.3 Features 3

1.4 Product appearance 4

1.5 Interface guide 6

1.6 Mechanical dimensions 7

2 Hardware specifications 10

3 Power supply & product care 13

4 Installation & safety 14

5 Troubleshooting 15

Revision history

Version	Description	Date
V1.0	Initial release	2026-09-23
V2.0	Product name updated	2026-09-23
V3.0	Definition drawings added	2026-09-23
V4.0	Additional platform options	2026-09-23
V5.0	Five product views; interface guide; revised connector drawings, RK3568 and OS configuration	2026-10-17

Copyright belongs to the originating company. All rights reserved. Specifications may be updated without notice. Contact the supplier for the latest revision.

1 Product overview

1.1 Applications

AYTJ101-H is a 10.1-inch ARM touch panel PC for smart displays, video terminals, IoT human-machine interfaces and industrial control.

1.2 Product overview

Powered by the Rockchip RK3568 platform, the system features a quad-core Cortex-A55 CPU at up to 2.0GHz, a 22nm process, an integrated Mali-G52 2EE GPU and a 1 TOPS NPU.

An aluminium frame and sheet-metal enclosure provide a compact structure. Interfaces include a green terminal block for two isolated RS485 channels, dual Gigabit Ethernet, USB 2.0, USB 3.0 (OTG), HDMI, TF, Micro-SIM and a headset jack. An optional 4G module is supported.

1.3 Features

• Aluminium frame and metal enclosure with a 10.1-inch, 10-point capacitive touchscreen.

• Panel, wall and desktop mounting; VESA mounting pattern: 100 × 100mm.

• ARM platform with a choice of CPU solutions and configurations.

• Two isolated RS485 channels as standard; optional GPIO and CAN expansion.

• Dual Gigabit Ethernet; three USB 2.0 ports and one USB 3.0 (OTG) port.

• HDMI 2.0 display output; Wi-Fi, Bluetooth and optional Mini PCI-E 4G.

• Android 11 recommended; Ubuntu 18.04 / 20.04 optional. Linux kernel customisation and QT5.12 are supported.

• Android customisation is supported, with API reference code available.

1.4 Product appearance

Front, side and rear views



Figure 1 Front view



Figure 2 Front-side view



Figure 3 Rear view

1.4 Product appearance (continued)

Main and auxiliary interface faces



Figure 4 Main interface face

Two isolated RS485 channels, power, Ethernet, USB, card slots, HDMI and headset connection.



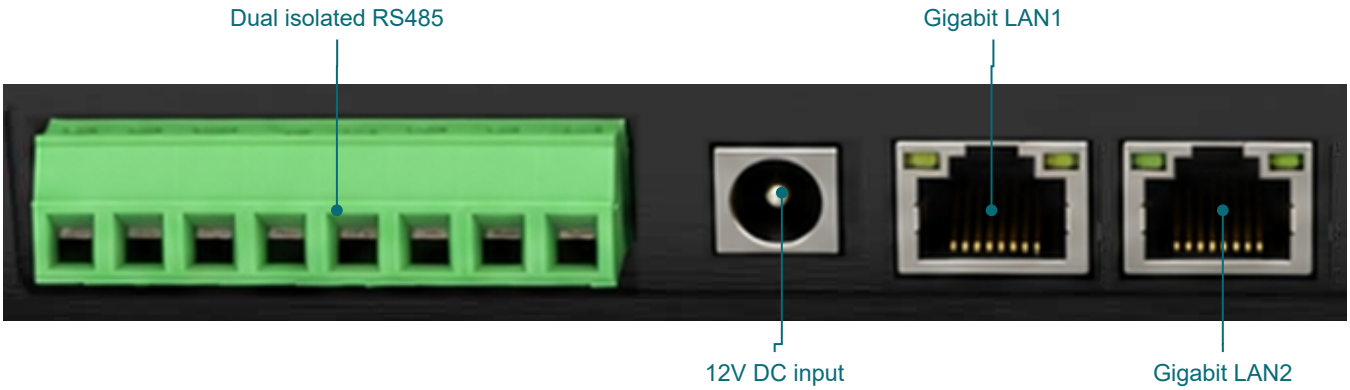
Figure 5 Auxiliary interface face

Two auxiliary USB ports and the antenna area. Interface names and positions are shown on the next page.

1.5 Interface guide

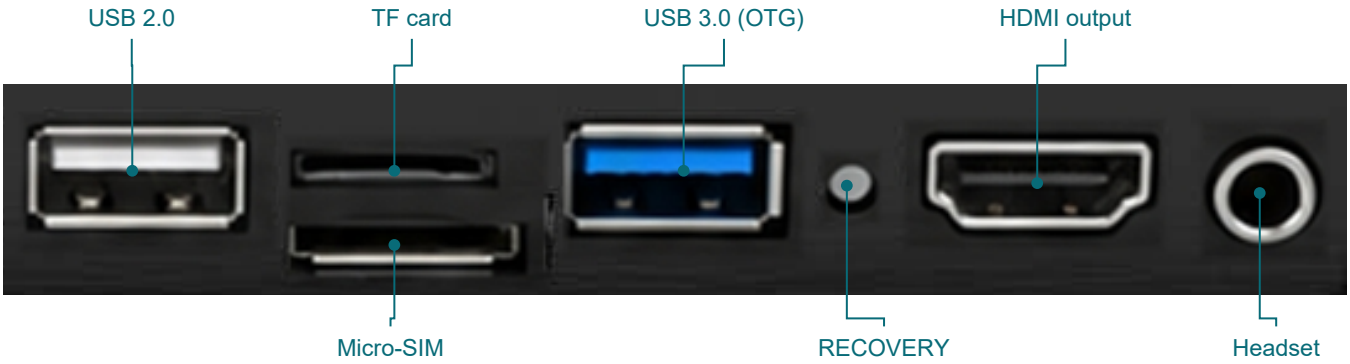
Labels follow the supplied product views, in left-to-right order

A Serial, power and Ethernet



RS485 (ttyS0) and RS485 (ttyS2): each channel uses B-, A+ and GND.

B USB, card slots and audio/video



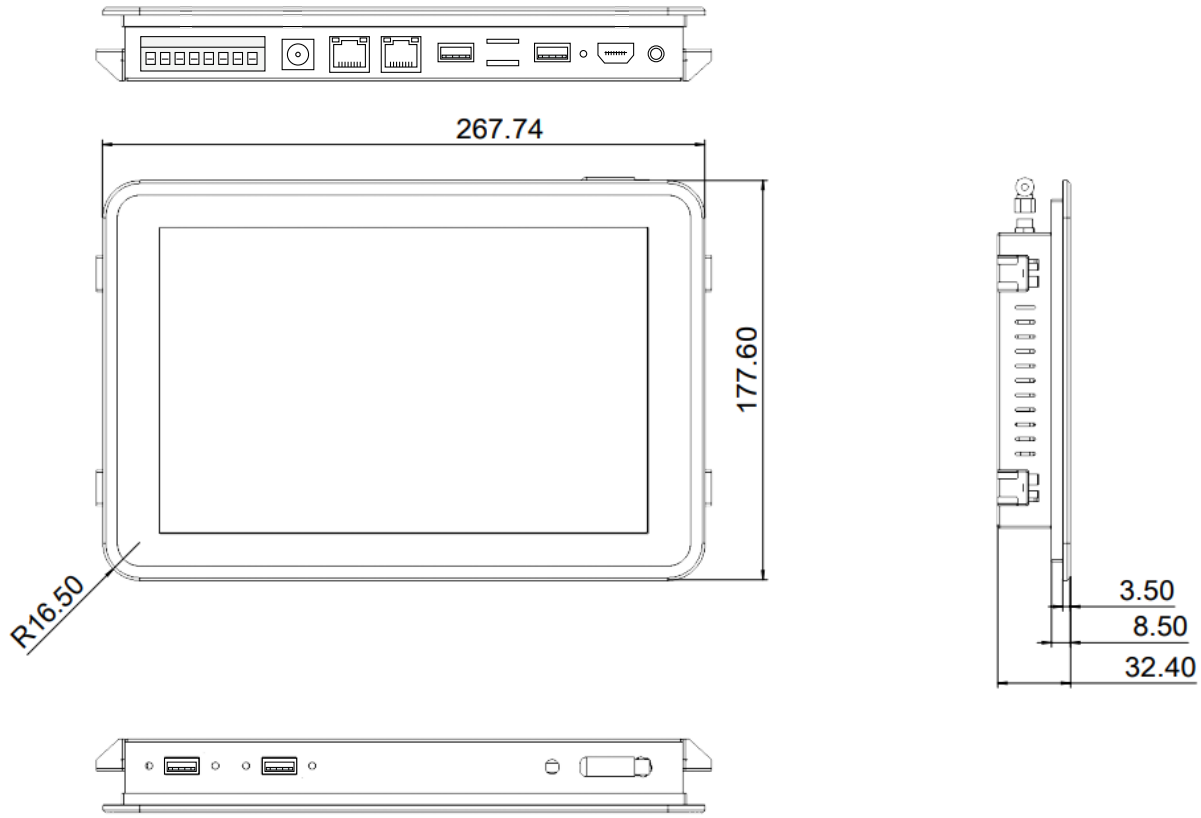
C Auxiliary interface face



USB total: 3 × USB 2.0 + 1 × USB 3.0 (OTG). The 4G module and its antenna are optional.

1.6 Mechanical dimensions

Overall, side and interface views | Unit: mm

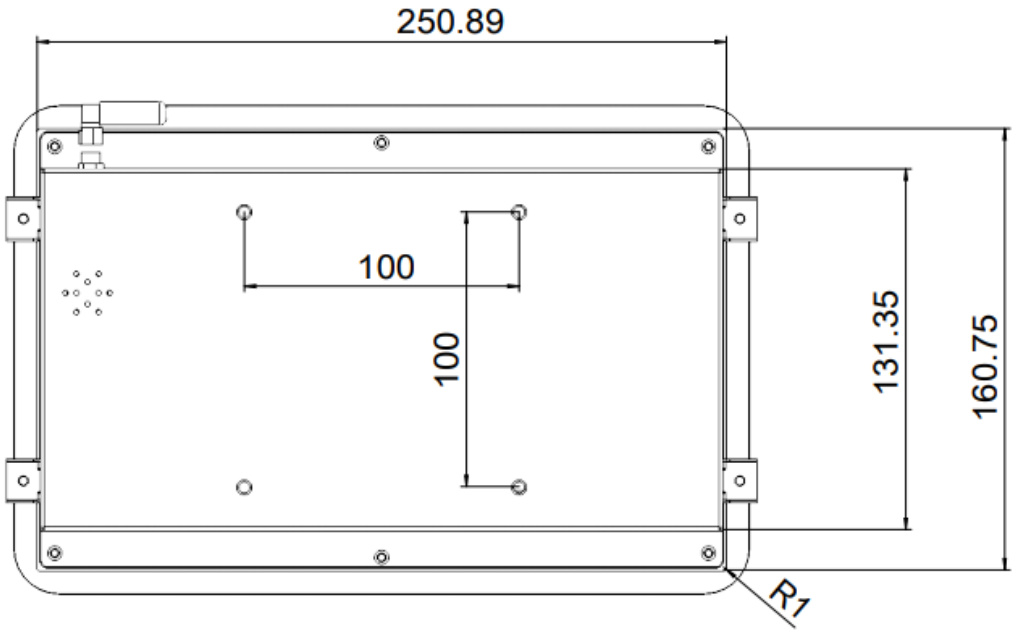


Item	Original dimension
Outer frame width / height	267.74 / 177.60
Corner radius	R16.50
Side dimensions	3.50 / 8.50 / 32.40

All original dimension values are retained. The main connector face is redrawn to match the product; the two opposite USB ports are populated. Interface names are provided in Section 1.5.

1.6 Mechanical dimensions (continued)

Rear view and mounting holes | Unit: mm

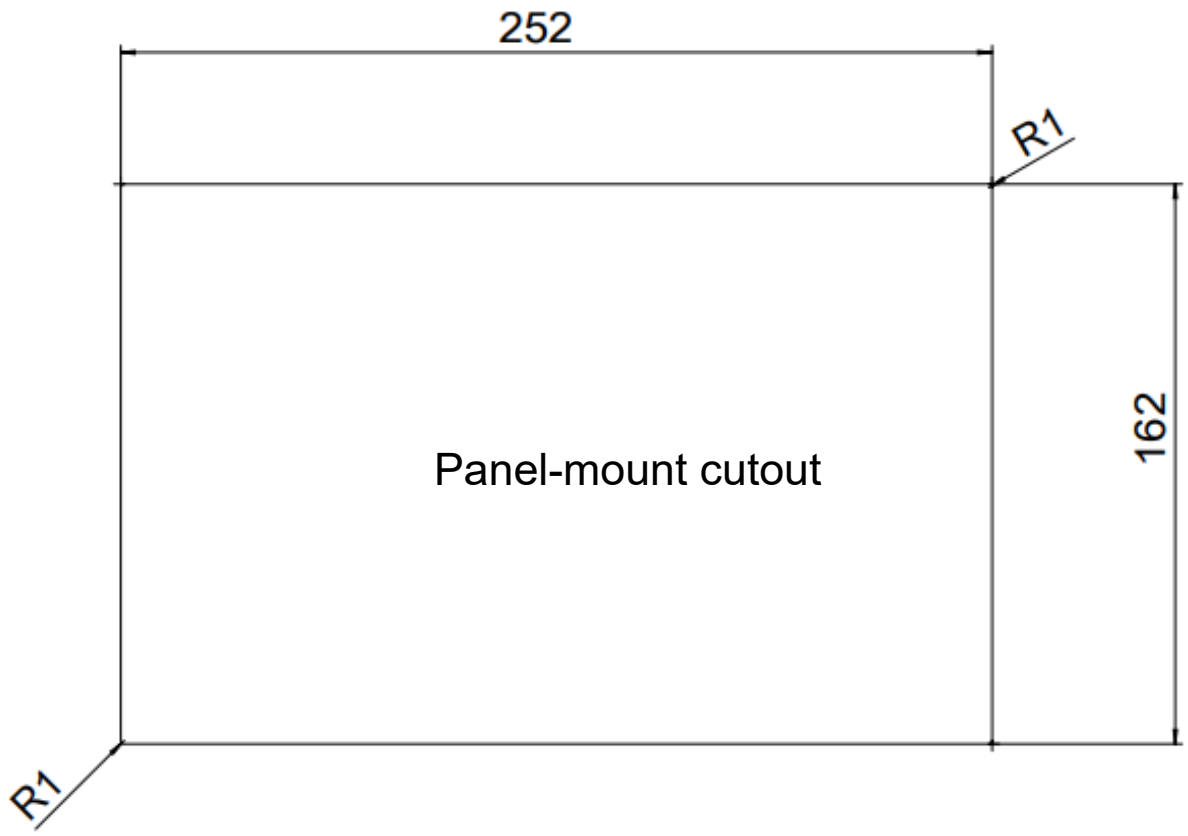


Item	Dimension
Rear enclosure width	250.89
Vertical dimensions	160.75 / 131.35
Mounting hole centres	100 × 100
Corner radius	R1

VESA mounting pattern: 100 × 100mm, consistent with the original drawing.

1.6 Mechanical dimensions (continued)

Panel-mount cutout dimensions | Unit: mm



Item	Dimension
Cutout width	252
Cutout height	162
Cutout corner radius	R1

Cutout dimensions and corner radii retain the original drawing values.

2 Hardware specifications

Display, touch and mainboard

Parameter	Specification
LCD display	
Display size	10.1 inches
Aspect ratio	16:10
Backlight	LED
Pixel pitch	0.264 × 0.264mm
Active area	216.5 × 135.6mm
Resolution	1280 × 800 @ 60Hz
Response time	5ms
Colours	16.7 million
Brightness	400cd/m²; high brightness optional
Contrast ratio (typ.)	1000:1
Viewing angle	Full viewing angle
Touchscreen	
Touch type	Capacitive touchscreen
Cover glass	2.4mm
Transmittance / hardness	87% / 7H
Touch points	10
Touch response	≤10ms
Input method	Finger / capacitive stylus
Single-point touch life	≥50 million touches
Touch linearity	<2%

2 Hardware specifications (continued)

Mainboard, interfaces and operating systems

Parameter	Specification
Mainboard (recommended RK3568)	
CPU	RK3568 quad-core Cortex-A55, up to 2.0GHz
DDR	LPDDR4 2GB (4/8GB optional)
GPU	Mali-G52 2EE
NPU	1 TOPS
Storage	32GB standard; expandable up to 256GB
Interfaces & systems	
HDMI output	HDMI 2.0 display interface
Headset / microphone	1 × 4-pole headset jack with microphone
USB 2.0	3 × Type-A: 1 main + 2 auxiliary
USB 3.0	1 × Type-A (OTG-HOST)
TF card	Push-push TF slot; up to 128GB
Wi-Fi	2.4G / 5G dual-band Wi-Fi 6; IEEE 802.11 b/g/n/ac
Bluetooth	BT5.0
Ethernet	2 × 10/100/1000Mbps auto-negotiating Ethernet
Mini PCI-E 4G	Standard Mini PCI-E 4G module interface (optional)
SIM	Micro-SIM slot (for optional 4G)
GPIO	5 GPIO signals (optional breakout)
RTC	Ultra-low-power RTC; scheduled power on/off
Button	RECOVERY / programming button
Operating systems	Android 11 recommended; Ubuntu 18.04 / 20.04 optional
System update	Local USB update supported

2 Hardware specifications (continued)

Complete system and mounting configuration

Parameter	Specification
Complete system	
Amplifier output	Dual-channel audio amplifier, 8Ω / 2W
Serial ports	2 isolated RS485 channels as standard
Antenna	Wi-Fi antenna; optional 4G antenna
Expandable interfaces	RS485, GPIO
Overall dimensions	268 × 178 × 33mm
Material	Aluminium frame, sheet-metal enclosure
Net weight	1.7kg
Mounting	Side mounting clips / VESA 100 × 100mm
Accessories	12V/3A adapter, Wi-Fi antenna, user manual, warranty card
Power input / consumption	9V to 15V DC / 10W
Operating temperature / RH	-10°C to 60°C / 0% to 90% (non-condensing)
Warranty	One year

The table lists nominal overall dimensions. See Section 1.6 for mounting and cutout dimensions. The standard adapter is 12V/3A; the VESA mounting pattern is 100 × 100mm.

3 Power supply & product care

3.1 Power adapter

Ensure the AC supply meets the adapter nameplate requirements and use a three-pin outlet with a reliable protective earth. Use the original 12V/3A adapter; any replacement must have the same specifications.

3.2 AC input characteristics

Parameter	Minimum	Nominal	Maximum
Input voltage	90Vac	100-240Vac	264Vac
Input frequency	47Hz	50/60Hz	63Hz

3.3 DC output characteristics

Static output characteristics: voltage, load, ripple and noise.

Output	Min. load	Max. load	Tolerance	Ripple/noise
+12.0V	0A	3A	±5%	50mVp-p

3.4 System DC input characteristics

Input	Min. load	Max. load	Tolerance	Ripple/noise
+12.0V	0A	3A	±15%	50mVp-p

3.5 Product care

Disconnect power before cleaning. Keep the equipment dry and away from liquids, sprays and heat sources. Do not dismantle or repair the unit yourself; contact authorised service personnel.

4 Installation & safety

Before use, read all supplied documents, operating instructions and safety information. Follow all warnings and markings on the product.

01 Read the supplied documents and inserts before installation and use.

02 Use the original adapter or one with the same specifications. Supply only the power type indicated on the product.

03 During thunderstorms, do not connect or disconnect network cables, power cables or other conductive external connections.

04 Unplug power before cleaning. Do not use liquids, sprays or wet cloths.

05 Do not dismantle the unit or attempt repairs. Servicing must be carried out by authorised personnel.

06 Keep the product away from heat sources and protect it from moisture.

07 Do not spill water or other liquids on the unit. Disconnect power immediately and seek professional service if any of the following occurs:

- The power cord or plug is damaged.
- Conductive liquid enters the equipment.
- The product is dropped or the enclosure is severely damaged.
- Unexplained errors or a clear performance change persist after troubleshooting.

5 Troubleshooting

The product is tested before shipment. Problems during use may relate to settings, operation or peripheral compatibility. Start with the checks below.

Symptom	Checks and actions
No response after power-on	Confirm that the unit is receiving power and that the adapter is powered and securely connected.
Unexpected shutdown	Check for interrupted power, a loose adapter connection or a scheduled power-off setting.
Backlight on, no image	Check for incompatible firmware or patches and restore a matching system image if required.
Video plays without sound	Check mute settings and confirm that the selected audio output matches Codec / HDMI.
Cannot connect to network	Check the network cable, router status and network configuration.
External USB device not recognised	For devices connected to the OTG port, open Settings > More settings and enable OTG Host.

Liquid ingress or accidental drops

If water or conductive liquid enters the unit, disconnect power immediately and wipe off surface liquid with a paper towel. Do not use a hot hair dryer. Contact after-sales service promptly if the situation is severe.

If a drop causes enclosure deformation, physical damage or mainboard damage, contact after-sales service for repair.