

AGM-070A1-I5-R

Industrial Linux Panel PC, 7 Inches, 1024x600, 16.7M Colors, IPS screen

Resistive Touch, Quad-Core ARM Cortex-A7, Linux 3.10 OS



• System Hardware

Properties	Parameters
Motherboard Level	Industrial-grade
CPU	Allwinner A40i, Quad-core ARM Cortex-A7 1.2GHz Processor
OS	Linux 3.10
RAM	1GB DDR3
Storage	8GB eMMC

• Display Parameters

Properties	Parameters	Description
Size	7 inch	-
LCD Type	IPS, TFT LCD	-
Viewing Angle	85°/85°/85°/85°	Wide viewing angle, high contrast, and good color reproduction
Active Area (AA)	154.20mm (W) x 85.88mm (H)	-
Viewing Area (VA)	155.00mm (W) x 87.50mm (H)	-
Resolution	1024 x 600	Available for 0°/90°/180°/270° rotated display
Backlight Service Life	>20,000 Hrs	Period the LED backlight operates under test conditions until brightness decreases to 50% of the initial level
Brightness	200 nit	100-level brightness adjustment (flickering may occur at 1%–30% of max brightness; not recommended for use in this range)

Note: use a dynamic screen saver to prevent afterimages from prolonged fixed-page display.

• Touch Parameter

Properties	Parameters
Touch Type	Resistive touch panel

• Power Supply

Properties	Min	Typ	Max	Unit
Power Voltage	9.0	12.0	36.0	V

Recommended power supply: 12V DC.

• Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60% RH at 12V	-20	25	70	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH

Conformal Coating	Yes
ESD	Air discharge $\pm 8\text{KV}$
EFT	Group pulse interference $\pm 2\text{KV}$

• Peripheral and Interfaces

Properties	Description
User Interface	2Pin_5.08mm socket, DB9 interface
COM	RS232 x2 (COM2 & COM6), RS422 x1 (COM3)
USB	USB x2 (host)
SD Card	Max. 64GB
Ethernet	10/100Mbps
RTC	Accuracy: ± 20 ppm @25°C
Buzzer	3V passive buzzer

• Development Platform

Development	Toolchain
Qt	Qt Creator 2.7.2 and above

• Dimensions

Outline Dimension	210.00 (W) x 150.00 (H) x 26.90 (T) mm
Net Weight	570 g