

Axonn HMI 4.3" TFT 480x272 resistive Lcd touch screen Intelligent Display Module for Arduino AXAM-480272-050AT, 4M Flash, 4KByte RAM, 65k colors.



Overview

Axonn is a seamless Human Machine Interface (HMI) solution that provides a control and visualization interface between a human and a process, machine, application or appliance. Axonn is mainly applied to Internet of thing (IoT) or consumer electronics field. It is the best solution to replace the traditional LCD and LED.

Axonn includes a hardware part (a series of TFT boards) and a software part (the Axonn editor). The Axonn TFT board uses only one serial port to communicate. It lets users avoid the hassle of wiring. We noticed that most engineers spend much time in application development but get unsatisfactory results. As a solution to this situation, Axonn editor has mass components such as button, text, progress bar, slider, instrument panel etc. to enrich the interface design. Furthermore, the drag-and-drop function ensures that users spend less time in programming, which will reduce 99% of their development workloads.

It's easy to adapt Axonn family HMI to existing projects. Users just need to provide it a UART.

AXAM-480272-050AT is a powerful 5.0" HMI, which is member of Axonn family. Features include: a 5.0" TFT 480 x 272 resistive touch screen display, 4M Flash, 2K Byte RAM, 65k colors.

Features

- 480 x 272 Resolution
- Compatible with Raspberry Pi A+, B+ and Raspberry Pi 2
- RGB 65K true to life colors
- TFT Screen with integrated 4-wire Resistive Touch Panel
- 4M Flash memory for User Application Code and Data
- Active Area: 110.88mm(W)×62.832mm(H)
- Generic using for all Arduino or Raspberry Pi project
- CE/EMC, RoHS certified

Specification

Item	Standard Values	Unit
LCD type	5.0" TFT	--
Dot Arrangement	480(RGB) X 272	dots
Display mode	TFT / Transmission / Normally White	--
Viewing Direction	12 O'clock (Gray scale inversion)	--
Active Area (A.A.)	110.88 (W) X 62.832 (H)	mm
Dot pitch	0.231(W) X 0.231(H)	mm
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C
Backlight	12 White LED	--
Weight	TBD	g

Interface Performance

Item	Conditions	Min	Typ	Max	Unit
Baud Rate	I/O0=1 (High Voltage)	1200	115200	691200	bps
	I/O0=1 (High Voltage)	-	921600		bps
	High-speed Download	-	6.25	12.000	Mbps
Output Voltage (TXD, BUSY)	Output 1, IOL= 1mA	3.0	3.2	-	V
	Output 0, IOL = -1mA	-	0.1	0.2	V
Input Voltage (RXD, I/O 0)	-	VSS-0.3	3.3	5.0	V
Buffer	-	-	24	-	Frame
Interface	TTL				
Socket	4Pin_2.54mm				
USB	None				
SD Slot	Yes (Up to 32GB, FAT32 file format, Micro SD / TF)				

Memory

Item	Test Condition	Min	Typ	Max	Unit
Flash Memory	Store fonts and images	-	4	128	MB
RAM Memory	Store variables	-	4	-	KB

