



§ SPECIFICATION APPROVAL SHEET §

Module No.: AMU-1024600-070U
AMU-1024600-070UP
AMU-1024600-070UT

Description: 7.0" TFT-LCD Series Module

Version: 1.3

Issue Date: April 29, 2020

Customer:	Approved By:
Date: / /	

Approved By: Designed By:

Peng Jun

Peter

Revision History

NO	Date	Description
V1.0	Aug. 16, 2019	Initial version.
V1.1	Oct. 7, 2019	Update product name.
V1.2	Feb. 7, 2020	Update product hardware and related contents.
V1.3	Apr. 29, 2020	Update product picture

1. General Description

- Display type: 7.0" TFT-LCD
- Display resolution: 1024(RGB) × 600 dots
- Display color: Full color
- Advanced ARM core processor
- 32 MB DDR RAM / 128 MB NAND Flash
- Touch type: non-touch / capacitive touch / resistive touch
- Interface: USB 2.0 HS / UART / RS232
- GPIO supported
- RTC supported
- Buzzer supported
- ADC supported
- SD card optional
- GUI software provided

2. General Specification

1-1 LCD and Touch Panel

PARAMETER	SPECIFICATION
Display Type	7.0" TFT-LCD
Display Mode	Normally Black, Transmissive
Display Resolution	1024(RGB) × 600 dots
Color	Full color
Color Filter Array	RGB vertical stripe
View Angle(T/B/L/R)	85 / 85 / 85 / 85 Degree
Back Light LED	24 White LED
Luminance	300 cd/m2
Display Endurance	> 50000 Hr
Contrast Ratio	800
Module Dimension	186.9(W) × 102.8(H) mm
Active Area	154.21(W) × 85.92(H) mm
Pixel Pitch	0.1506(W) × 0.1432(H) mm
Touch Type	Non-Touch Capacitive / Single Point Resistive / Single Point
Touch Screen Transparency	Resistive: ≥ 78 % Capacitive: ≥ 85 %
Touch Screen Endurance	1,000,000 times

1-2 Environment

PARAMETER	SPECIFICATION	Unit
Operating Temperature	-20 ~ +70	°C
Storage Temperature	-30 ~ +80	°C

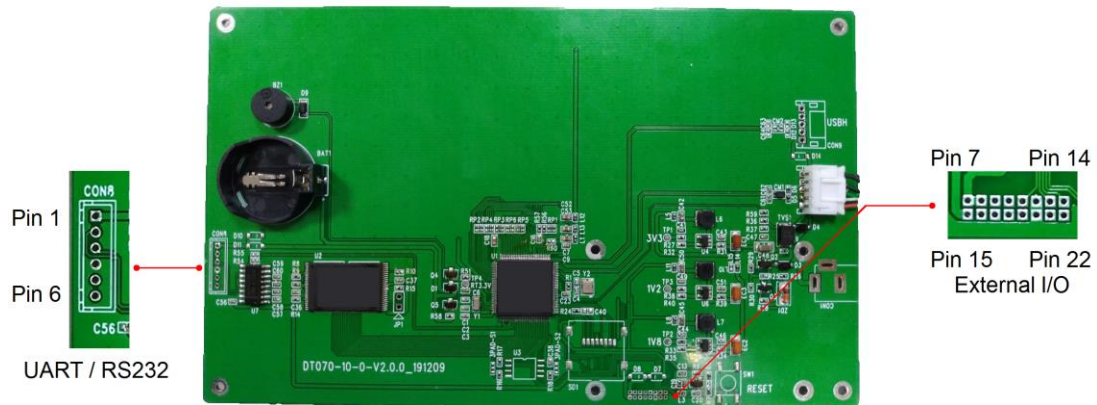
1-3 Electronic

PARAMETER	Typ	Unit
VCC(Supply Voltage)	5	V
ICC(Supply Current)	410	mA

1-4 Storage Capacity

PARAMETER	Typ	Unit
Estimated Number of Full Screen Images Stored (.jpg)	218	pieces
Estimated Number of Full Screen Images Stored (.bmp)	54	

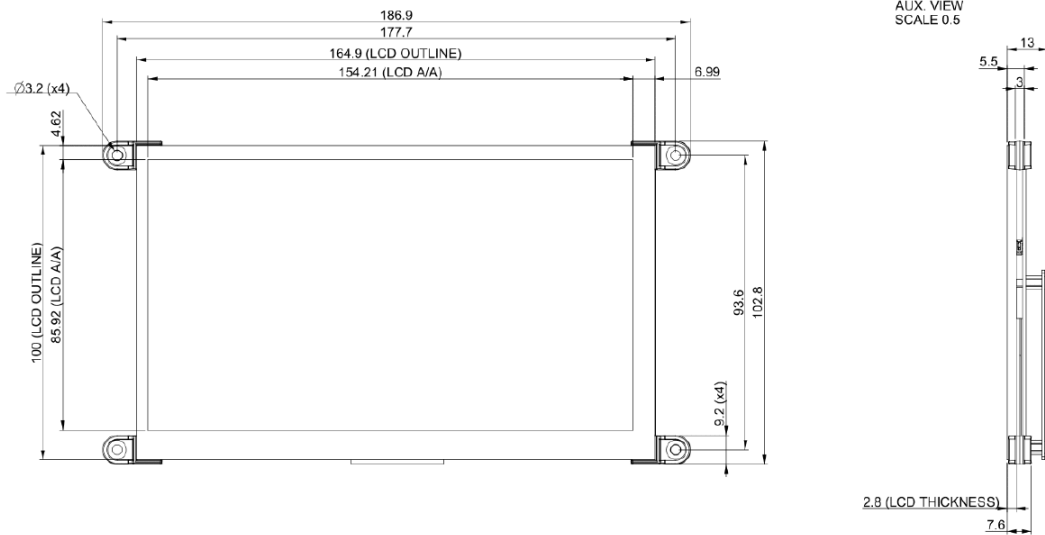
3. Pin Description



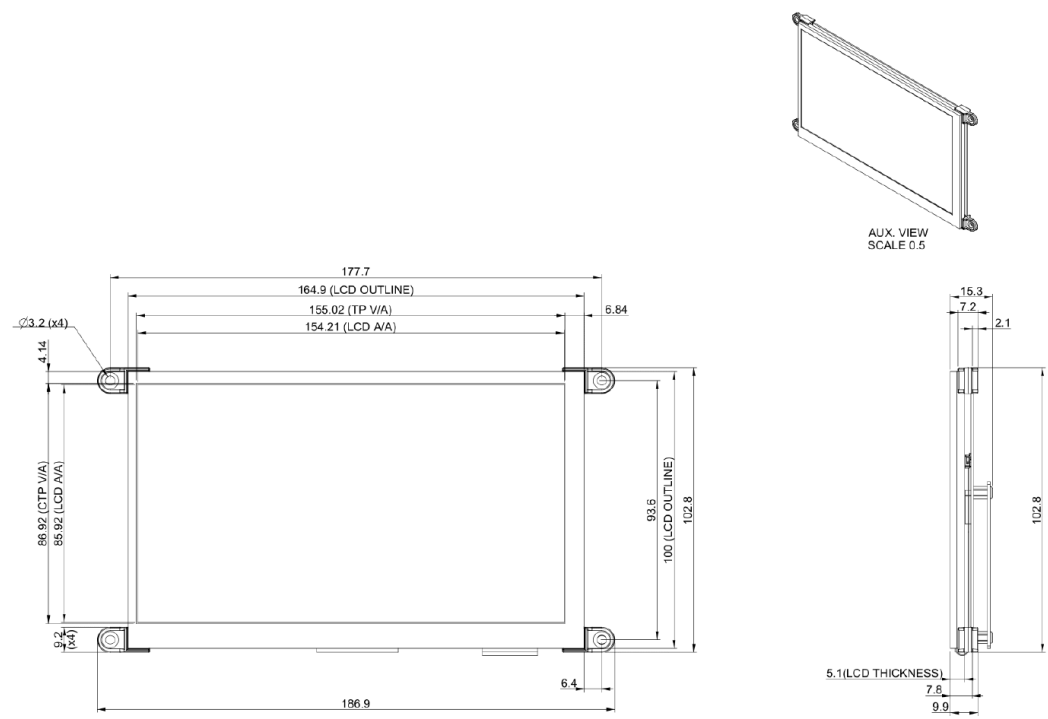
Pin	Component	Symbol	I/O
1	UART / RS232	Vin	Power
2		Rx	In
3		Tx	Out
4		GND	Power
5	-	NC	-
6	-	NC	-
7	External I/O	Vin	Power
8		Vin	Power
9		AIN3	In
10		AIN1	In
11		SPI_DI	In
12		GND	Power
13		SPI_CS0	Out
14		SPI_CLK	Out
15		Vout	Power
16		GPIO	I/O
17		GPIO	I/O
18		GPIO	I/O
19		TCK_LCD_BRIGHTNESS	O
20		GND	Power
21		TDO_BUZZER_PWM	Out
22		RESET	Out

4. Dimension Information

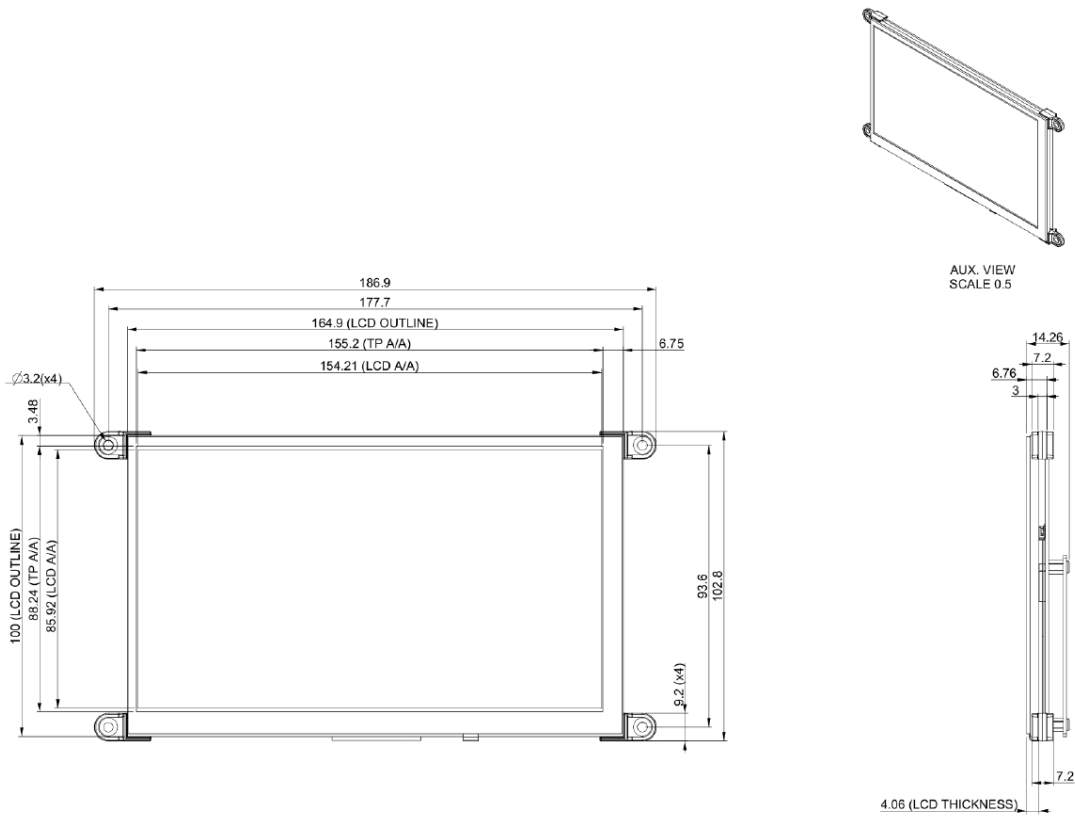
Model: AMU-1024600-070U (7.0" TFT-LCD display module)



Model: AMU-1024600-070UP (7.0" TFT-LCD display module with capacitive touch)

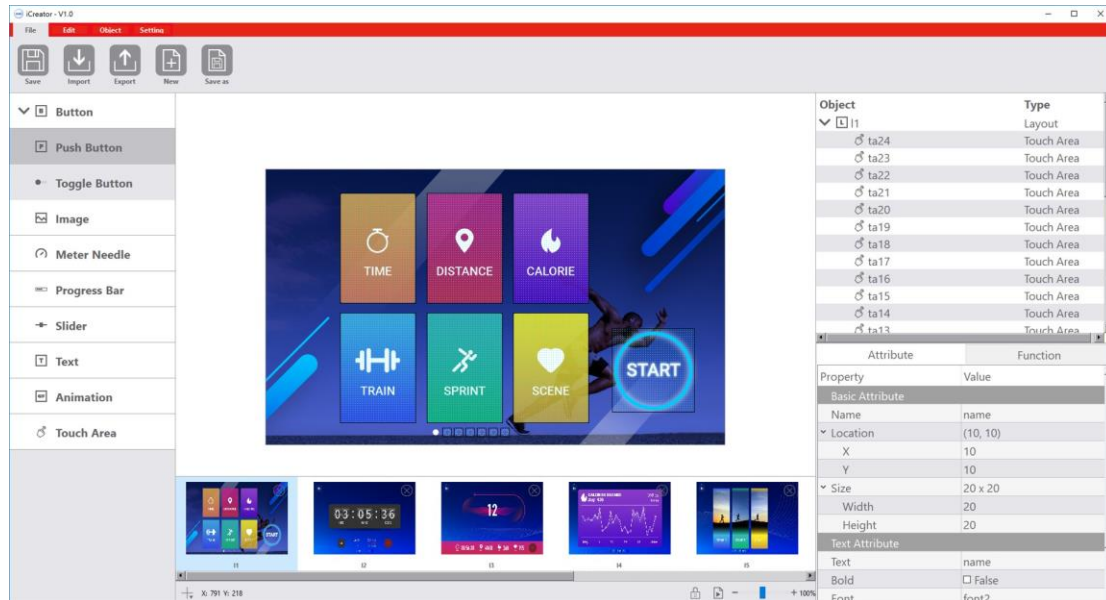


Model: AMU-1024600-070UT (7.0" TFT-LCD display module with resistive touch)



5. HMI Configurator - iCreator

Amson has created the iCreator Software Environment for Programming, Control Configuration and Interface Design. GUI is designed with the principle - “What You See is What You Get” for seamless and ease in design.



iCreator Interface

For more information, please refer to HMI Developer Documentation.