



§ SPECIFICATION APPROVAL SHEET §

Module No.: AMU-240320-024L
AMU-240320-024LP
AMU-240320-024LT

Description: 2.4" TFT-LCD Series Module

Version: 1.2

Issue Date: April 29, 2020

| | |
|--|--|
| Customer: Date: / / | Approved By: |
|--|--|

Approved By: Designed By:
Peng Jun Peter

Revision History

| NO | Date | Description |
|------|---------------|-------------------------|
| V1.0 | Aug. 16, 2019 | Initial version. |
| V1.1 | Oct. 5, 2019 | Update product name. |
| V1.2 | Apr. 29, 2020 | Update product picture. |

1. General Description

- Display type: 2.4" TFT-LCD
- Display resolution: 240(RGB) × 320 dots
- Display color: 262K
- Advanced ARM core processor
- 8 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 | 2.4" TFT-LCD |
| Display Mode | Transmission/ Normally Black |
| Display Resolution | 240(RGB) × 320 dots |
| Color | 262K |
| Color Filter Array | RGB vertical stripe |
| View Angle(T/B/L/R) | 80 / 80 / 80 / 80 Degree |
| Back Light LED | 4 White LED |
| Luminance | 250 cd/m2 |
| Display Endurance | > 50000 Hr |
| Contrast Ratio | 800 |
| Module Dimension | 47.94(W) × 86.85(H) mm |
| Active Area | 36.72(W) × 48.96(H) mm |
| Pixel Pitch | 0.153(W) × 0.153(H) mm |
| Touch Type | Non-Touch Capacitive / Single Point Resistive / Single Point |
| Touch Screen Transparency | Resistive: ≥ 76 % 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 |

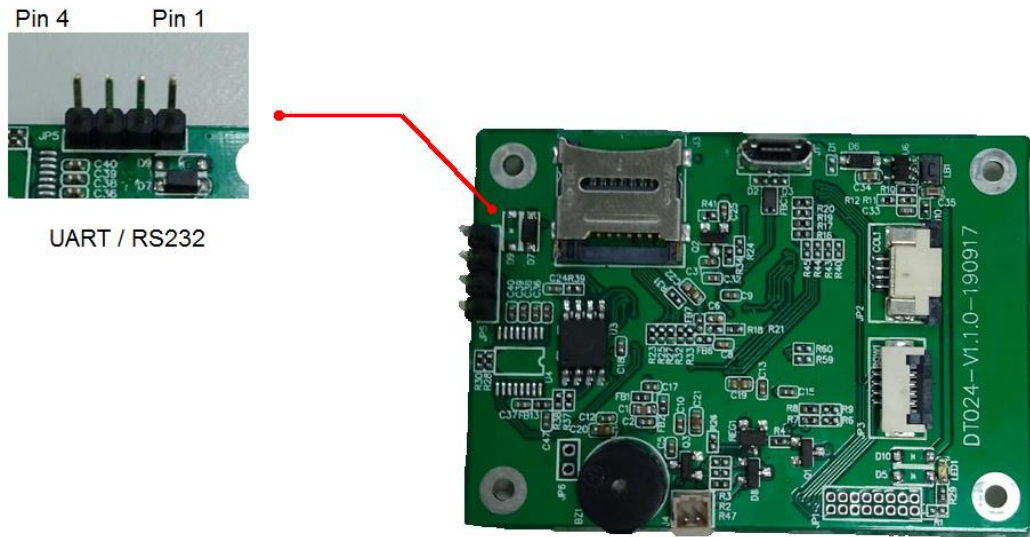
1-3 Electronic

| PARAMETER | Typ | Unit |
|---------------------|------------|-------------|
| VCC(Supply Voltage) | 5 | V |
| ICC(Supply Current) | 170 | mA |

1-4 Storage Capacity

| PARAMETER | Typ | Unit |
|--|------------|-------------|
| Estimated Number of Full Screen Images Stored (.jpg) | 1747 | pieces |
| Estimated Number of Full Screen Images Stored (.bmp) | 436 | |

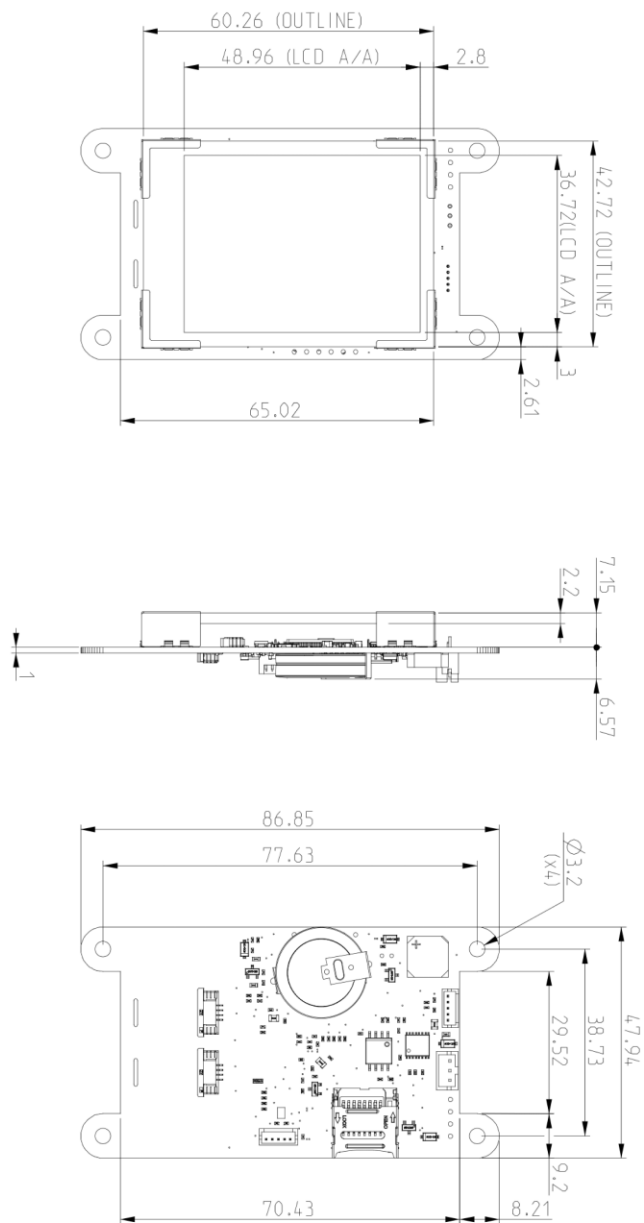
3. Pin Description



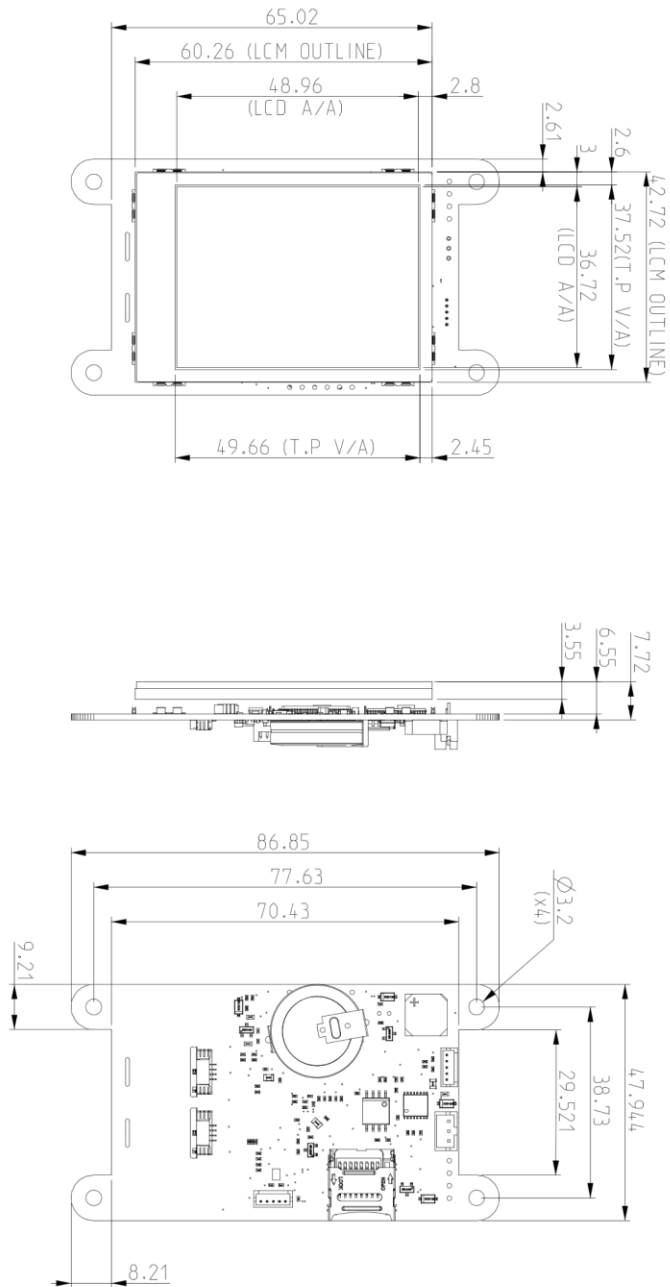
| Pin | Component | Symbol | I/O |
|-----|--------------|--------|-------|
| 1 | UART / RS232 | 5V in | Power |
| 2 | | TX | Out |
| 3 | | RX | In |
| 4 | | GND | Power |

4. Dimension Information

Model: AMU-240320-024L (2.4" TFT-LCD display module)

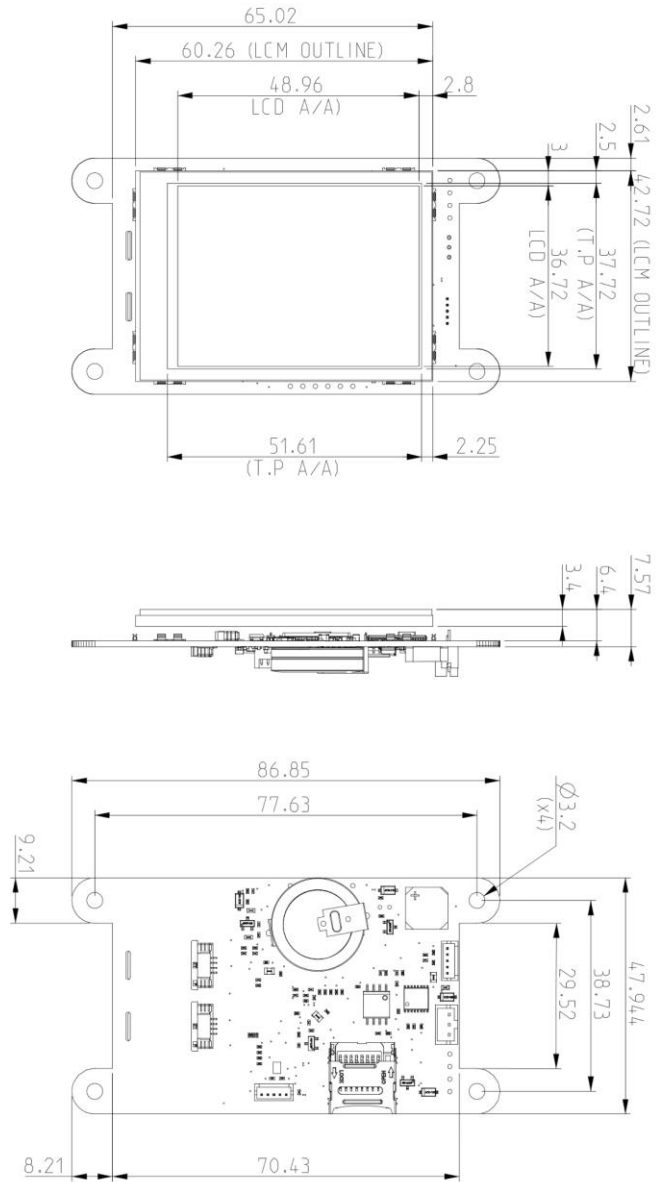


Model: AMU-240320-024LP (2.4" TFT-LCD display module with capacitive touch)



This technical specification is subject to change without notice

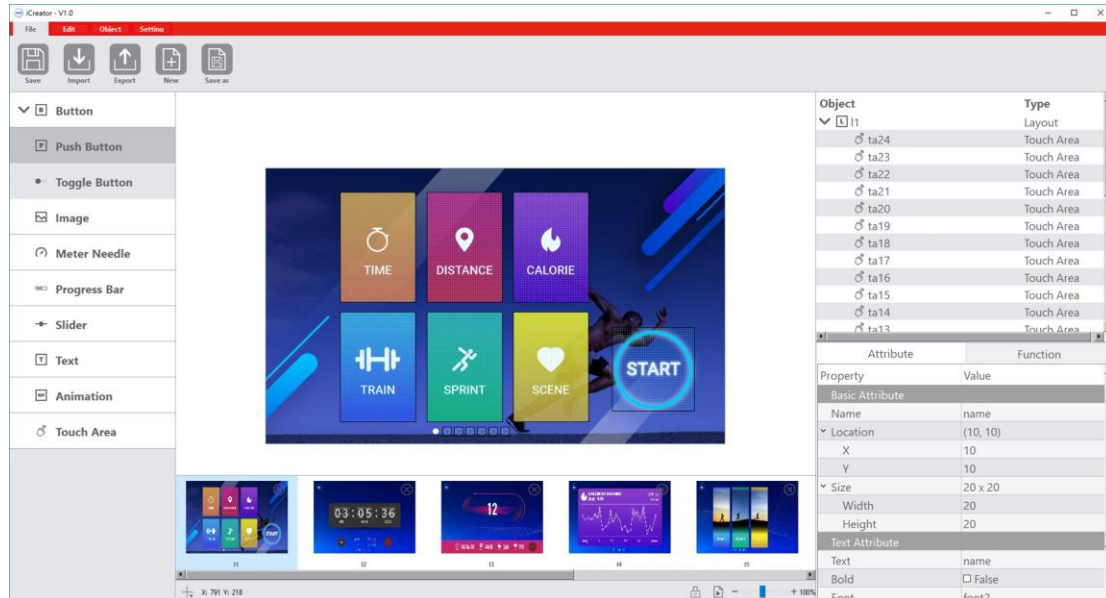
Model: AMU-240320-024LT (2.4" TFT-LCD display module with resistive touch)



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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.