



Specification for Approval

Customer: _____

Model Name: AMU-240320-028RP-A

NOTES:

1. DISPLAY TYPE: 2.8" IPS TFT
2. LCD DRIVE IC: S17789V
3. POLARIZER MODE: TRANSMISSIVE/POSITIVE
4. OPERATING TEMP: -20° C~+70° C
5. STORAGE TEMP: -30° C~+80° C
6. UNMARKER TOLERANCE: ±0.20
7. REQUIREMENTS ON ENVIRONMENTAL PROTECTION: RoHS

HMI LAMT Characteristics

1. Operating Voltage: 5V
2. RAM: 2048 BYTE
3. FLASH: 64MB

| P/N | SYMBOL |
|-----|--------|
| 1 | RX |
| 2 | TX |
| 3 | +5V |
| 4 | GND |

| 项次 | 内 容 | 版次 | 日期 | 误差 | 比例 | 单位 (mm) | 审核 | 绘制 | 时间 | 名称: LCM |
|----|-------------|----|-----------|----------|-----|---------|----|----|-----------|-------------------------|
| 1 | New Drawing | 0 | 2021.8.24 | X. ±0.30 | 1/1 | | | | 2021.8.24 | 型 号: AMU-240320-028RP-A |
| 2 | | | | .X ±0.20 | | | | | | 绘 制 编 号: |
| 3 | | | | .XX±0.05 | | | | | | |

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• **General Information**

| ITEM | STANDARD VALUES |
|----------------------------|---------------------------|
| LCD type | 2.8" TFT |
| colors | 65K (65536) |
| Module size | 69.20(L)X50.00(W)X5.20(H) |
| TFT Active area | 50.6mm (L) ×43.2mm (W) |
| Dot arrangement | 240(RGB)×320 |
| Touch Type | CTP |
| Back Light | LED |
| B/L Life Time | >30,000 h |
| Luminous Intensity for LCM | 230Cd/m ² |
| Weight | TBD |

• **DC Characteristics**

| ITEM | Test condition | MIN | TYP | MAX | Unit |
|-------------------|----------------|------|-----|-----|------|
| Supply Voltage | | 4.75 | 5 | 7 | V |
| operating current | VCC=+5V, | — | 85 | — | mA |
| | SLEEP Mode | — | 20 | — | mA |

• **Operating temperature, Contents of Reliability Tests**

| ITEM | Test condition | MIN | TYP | MAX | Unit |
|-----------------------|----------------|-----|-----|-----|------|
| temperature operating | 5V | -20 | 25 | 70 | °C |
| Temperature Storage | — | -30 | 25 | 85 | °C |
| Humidity Operation | 25°C | 10% | 60% | 90% | RH |

• **Interface parameter**

| ITEM | Test condition | MIN | TYP | MAX | Unit |
|---------------------------|--|------|--------|-----|------|
| serial baud rate | standard | - | 115200 | - | bps |
| Serial output level (TXD) | output 1, Iout=1mA | 3 | 3.2 | — | V |
| | output 0, Iout=-1mA | — | 0.1 | 0.2 | V |
| serial output level (RXD) | output 1, Iout=1mA | 2 | 3.3 | 5 | V |
| | output 0, Iout=-1mA | -0.7 | 0 | 1.3 | V |
| UART configuration | Data bits: 8, Parity: None, Stop bits: 1 | | | | |
| Connector | XH-4P-2.54 | | | | |



• **Memory parameter**

| Memory type | parameter | MIN | TYP | MAX | Unit |
|--------------|---------------------|-----|-----|-----|-------|
| FLASH Memory | Image storage space | — | 64 | — | M-bit |