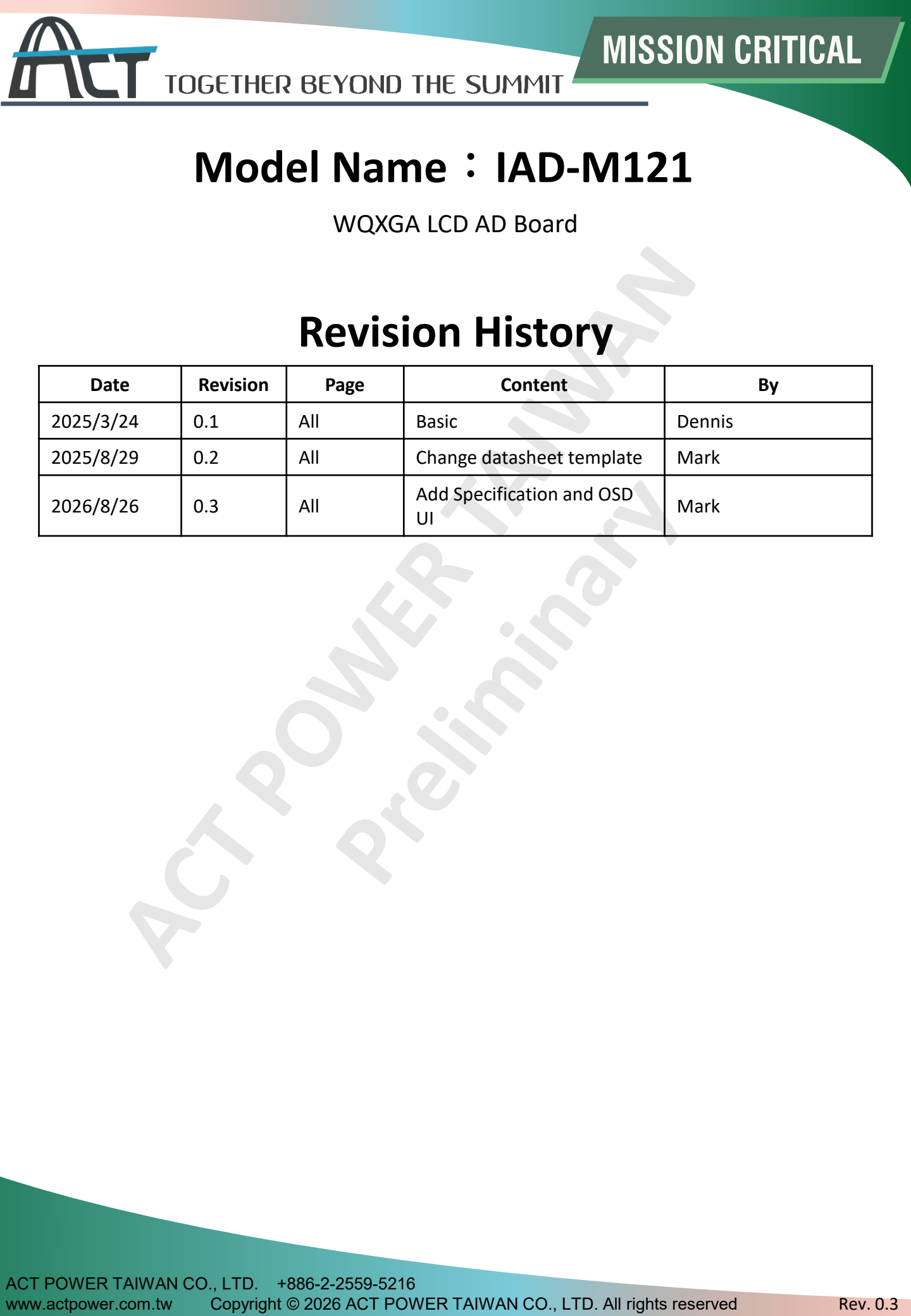




# Model Name : IAD-M121

WQXGA LCD AD Board

## Revision History

| Date      | Revision | Page | Content                      | By     |
|-----------|----------|------|------------------------------|--------|
| 2025/3/24 | 0.1      | All  | Basic                        | Dennis |
| 2025/8/29 | 0.2      | All  | Change datasheet template    | Mark   |
| 2026/8/26 | 0.3      | All  | Add Specification and OSD UI | Mark   |

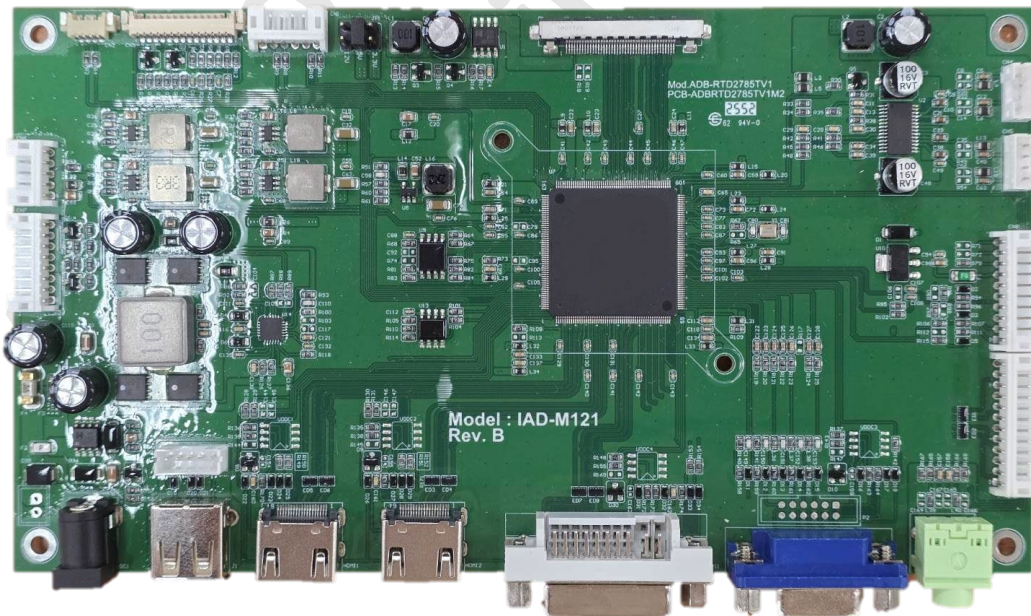
# IAD-M121

WQXGA LCD AD Board

## Features

- Supported DC 12V and 24V Input
- Support 2560 x 1600 @60 Resolution
- Supported USB By-Pass, Reserved DP Input Function for Potential Connection
- Wide Operating Temperature: -20°C to +70°C
- Support 8-bit / 10-bit Color Depth LVDS Output
- Support XYVYV Color Space

## Appearance



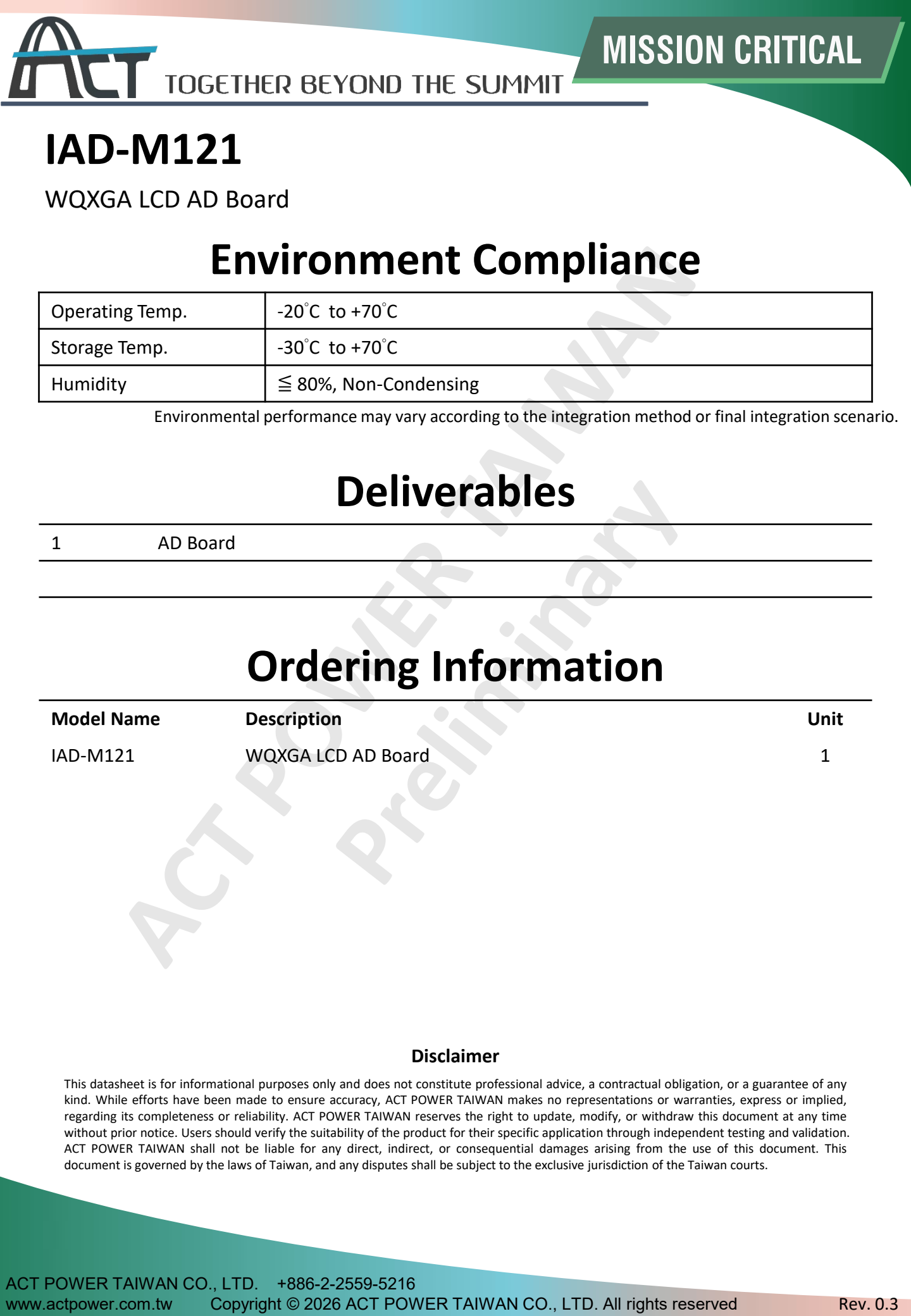


# IAD-M121

WQXGA LCD AD Board

## Specification

|                                    |                                                                                                                             |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Supported Resolution               | Up to 2560 x 1600 @60Hz Panel                                                                                               |
| Input Interface (Border Line)      | 1x VGA<br>1x DVI<br>2x HDMI<br>1x Audio                                                                                     |
| Input Interface (On-Board Housing) | Backlight, STB (5V, 1amp), Light Sensor, Key + IR, RS232/485 (Reserved, Optional), Audio, Display Port (Reserved, Optional) |
| Output Interface                   | 1x LVDS (40 Pins)                                                                                                           |
| Others                             | 1x USB-A (By-Pass)                                                                                                          |
| Audio                              | 10W+10W @ 8Ω Class-D stereo Audio Amplifier                                                                                 |
| Power Input                        | DC+12V/ 24V (9-26 Available)<br>Max. Current: 3amp; Quiescent Current <50mA                                                 |
| Backlight Power Output             | **By-Pass from DC Jack Power Input<br>(Needs to Make Sure the Power Input = Backlight Power Required)                       |
| Backlight Max Current              | 6amp                                                                                                                        |
| LVDS Power Selection               | DC+3.3V/+5V/+12V                                                                                                            |
| OSD Key                            | Power, Menu (/OK), Exit (/Back), Up, Down, +, -                                                                             |
| OSD Language                       | English                                                                                                                     |
| Board Dimension                    | 190 x 105 mm                                                                                                                |



# IAD-M121

WQXGA LCD AD Board

## Environment Compliance

|                 |                       |
|-----------------|-----------------------|
| Operating Temp. | -20°C to +70°C        |
| Storage Temp.   | -30°C to +70°C        |
| Humidity        | ≤ 80%, Non-Condensing |

Environmental performance may vary according to the integration method or final integration scenario.

## Deliverables

|   |          |
|---|----------|
| 1 | AD Board |
|---|----------|

## Ordering Information

| Model Name | Description        | Unit |
|------------|--------------------|------|
| IAD-M121   | WQXGA LCD AD Board | 1    |

### Disclaimer

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IAD-M121

WQXGA LCD AD Board

PCB Dimension Drawing

