

WQXGA LCD Controller Board (AD Board)

Revision History

Date	Revision	Page	Content	By
2026/9/08	0.1	All	First Draft	Nick Liu

ACT POWER TAIWAN
Preliminary

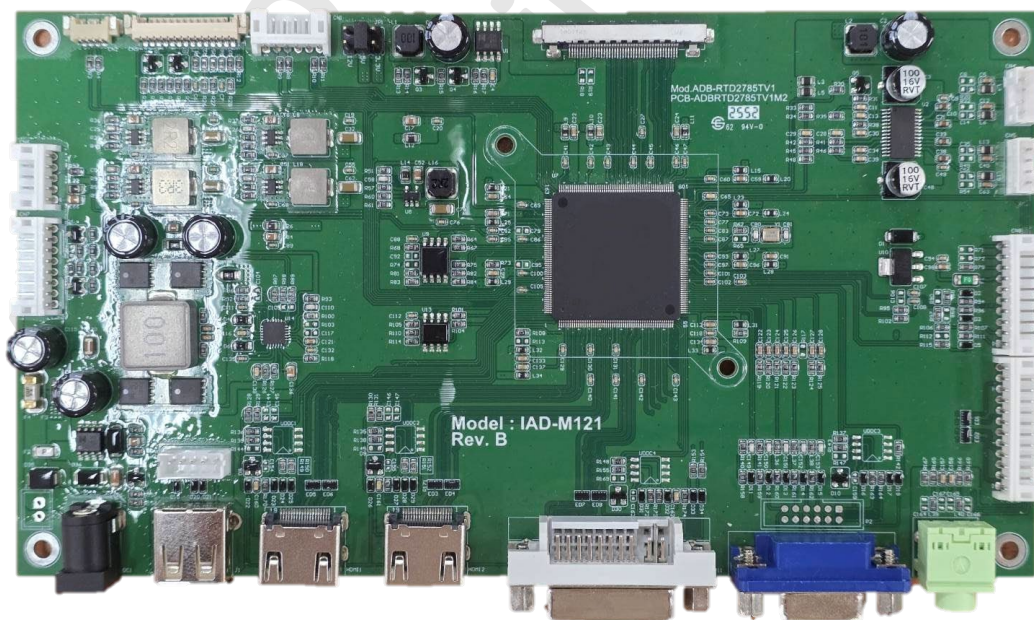
VES-H0501

WQXGA LCD Controller Board (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

Appearance

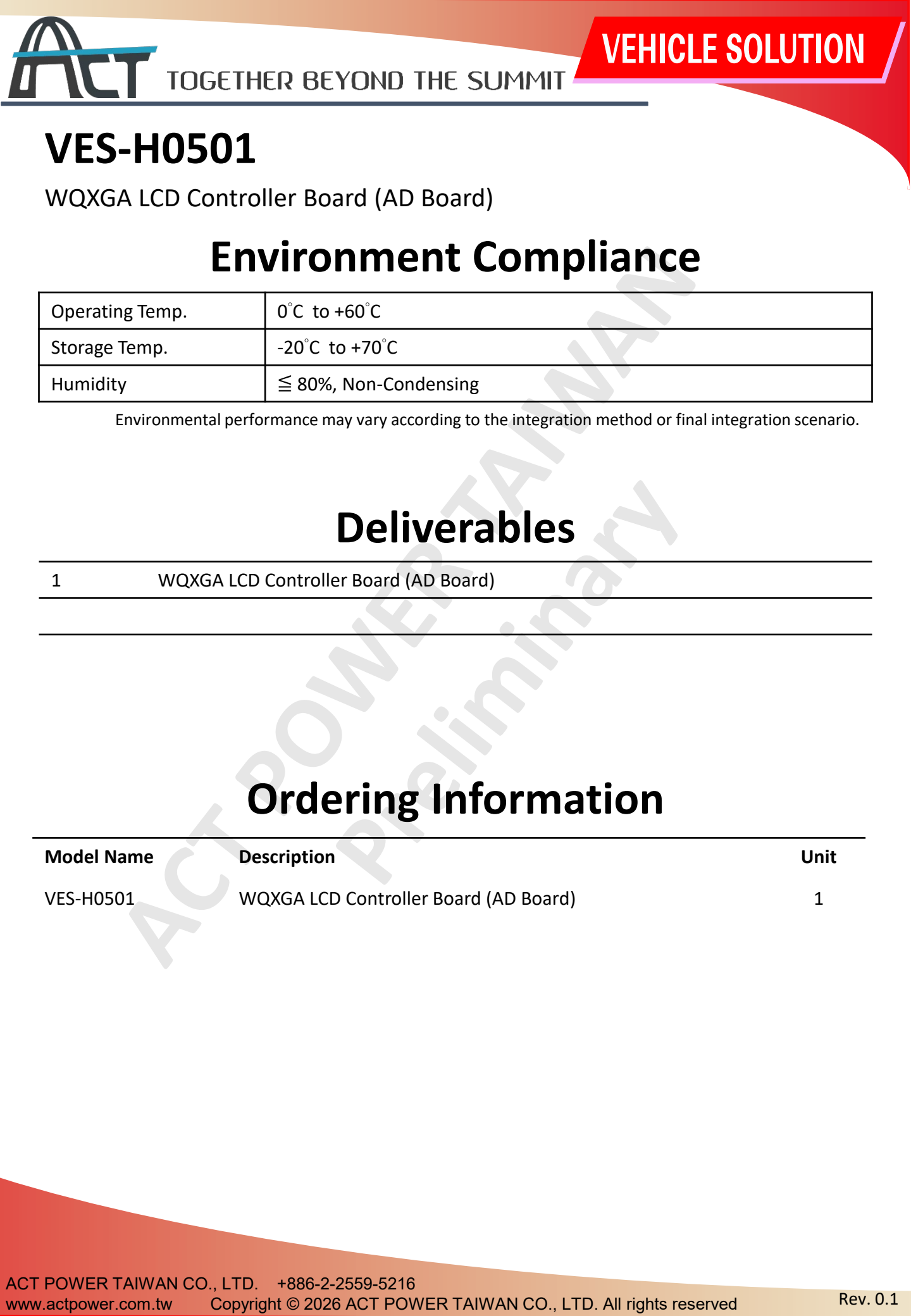


VES-H0501

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Specification

Supported Resolution	Up to 2560 x 1600 @60Hz Panel
Input Interface (Border Line)	1x VGA 1x DVI 2x HDMI 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) Max. Current: 3amp; Quiescent Current <50mA
Backlight Power Output	**By-Pass from DC Jack Power Input (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



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Environment Compliance

Operating Temp.	0°C to +60°C
Storage Temp.	-20°C to +70°C
Humidity	≤ 80%, Non-Condensing

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

Deliverables

1	WQXGA LCD Controller Board (AD Board)
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Ordering Information

Model Name	Description	Unit
VES-H0501	WQXGA LCD Controller Board (AD Board)	1

VES-H0501

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PCB Dimension Drawing

