# MEC-DIS-271L

### M.2 2280 (B+M key) LVDS output display board



- Dual-Lane (x2) PCI-Express with throughput to 5.0/2.5 GT/s
- Fully compliant with PCI-Express Base Specification Rev.2.0
- Support 24 or 48 bit LVDS Channel
- Built in 256MB DDR3 memory
- 128-bit high performance graphics engine
- LVDS display resolution up to 1920x1080@60Hz
- Support 3.3V or 5V panel power select by switch setting











### Overview

MEC-DIS-271L is a LVDS output display card for embedded PC. The card follows the M.2 standard which is compliant with PCI Express x 2 classification and M.2 form factor. This board fits in any host computer that has M.2 slots.



### **Top Performance**

MEC-DIS-271L supports display output of 24 or 48bit LVDS channel and resolution up to 1920x1080@60Hz. MEC-DIS-271L allows configurations to have single or dual display mode without hardware customization. MEC-DIS-271L provides the most cost-effective and fastest time-to-market solution for applications that require dual display devices.



### **High Usability**

MEC-DIS-271L is designed with flexibilities for many different applications. The accessory (power input cable) is included in the standard package.

# Specifications

#### General

**PCI-Express Revision:** 

PCI-Express Base Specification Rev. 2.0

**PCI-Express Electromechanical Revision:** 

PCI-Express M.2 Electromechanical Rev. 1.1

#### **Power Requirement**

Power Consumption: 850mA@3.3V

#### **Dimensions**

Width x Length (mm): 22.00 x 80.00

#### Hardware

Controllers: SMI SM768

**Bus:** Dual-Lane (x2) PCI-Express with throughput

up to 5.0/2.5 GT/s

#### Interface (Connector)

LVDS: X1(Single/Dual Channel LVDS)

#### **Performance**

LVDS Resolution: 24/48bit LVDS

#### **Driver Support**

**Operating Systems**: Win 7, Win 10, Linux

#### Reliability

**Warranty:** 3 years **MTBF:** >20,161,919

#### **Environmental Limits**

#### **Operating Temperature:**

MEC-DIS-271LS: 0°C ~ 70°C

MEC-DIS-271LW: -40°C ~ 85°C

Storage Temperature: -40°C ~ 95°C

Humidity (non-condensing): 5% ~ 95%

#### Regulatory Approvals

EMC: CE, FCC, UKCA

EMI: EN 55032, EN61000-3-2, EN61000-3-3,

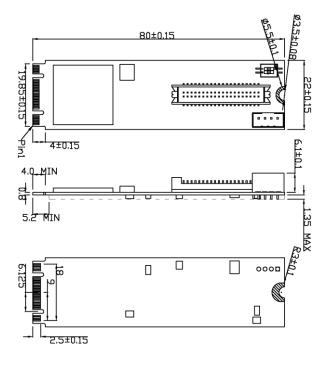
FCC Part 15 Subpart B, Class B

**EMS:** EN 55035, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6,

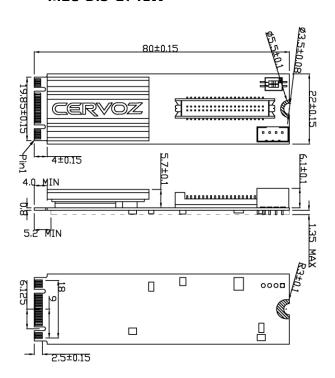
IEC 61000-4-8, IEC 61000-4-11

# Dimensions

#### **MEC-DIS-271LS**



#### **MEC-DIS-271LW**





## **Package Checklist**

#### **MEC-DIS-271LS**

- M.2 2280 Card x 1
- 4Pin Power Input Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1



#### MEC-DIS-271LW

- M.2 2280 Card (with Heatsink) x 1
- 4Pin Power Input Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1



# **Ordering Information**



### **Available Models**

MEC-DIS-271LS M.2 2280 LVDS output display board (0 $^{\circ}$ C ~+70 $^{\circ}$ C)

MEC-DIS-271LW M.2 2280 LVDS output display board  $(-40^{\circ}\text{C} \sim +85^{\circ}\text{C})$