



CERVOZ

MEC-DIS-271L

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

Product Datasheet



Date: 2024.06.13

Revision: 1.0

File: Cervoz_Modular_Expansion_Card_M.2_2280_B_M_Display_Datasheet_Rev1.0



Revision History

Date	Revision	Description
2024.06.13	1.0	New datasheet format



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1. Product Overview

1.1 Introduction

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.

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.

MEC-DIS-271L is designed with flexibilities for many different application and accessories (power input cable) are included in the standard package.

1.2 Feature

- Quad-Lane (x2) PCI-Express with throughput up to 5.0/2.5GT/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

2. Product Specifications

General	
PCI-Express Revision	PCI-Express Base Specification Rev. 2.0
PCI-Express Electromechanical Revision	PCI-Express M.2 Electromechanical Rev. 1.1
Hardware	
Controller	SMI SM768
Bus	Dual-Lane (x4) PCI-Express with throughput up to 5.0/2.5GT/s
Interface (Connector)	
LVDS	X1 (Single/Dual Channel LVDS)
Performance	
LVDS Resolution	24/48bit LVDS
Driver Support	
Operating Systems	Win 7, Win 10, Linux
Power Requirement	
Power Consumption	850mA @3.3V
Dimensions	
Width x Length (mm)	22.00 x 80.00
Environmental Limits	
Operating Temperature	MEC-LAN-271LS : 0 ~70°C MEC-LAN-271LW : -40 ~85°C
Storage Temperature	-40 ~ 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

Reliability	
Warranty	3 years
MTBF	> 20,161,919 Hours

3. Ordering Information

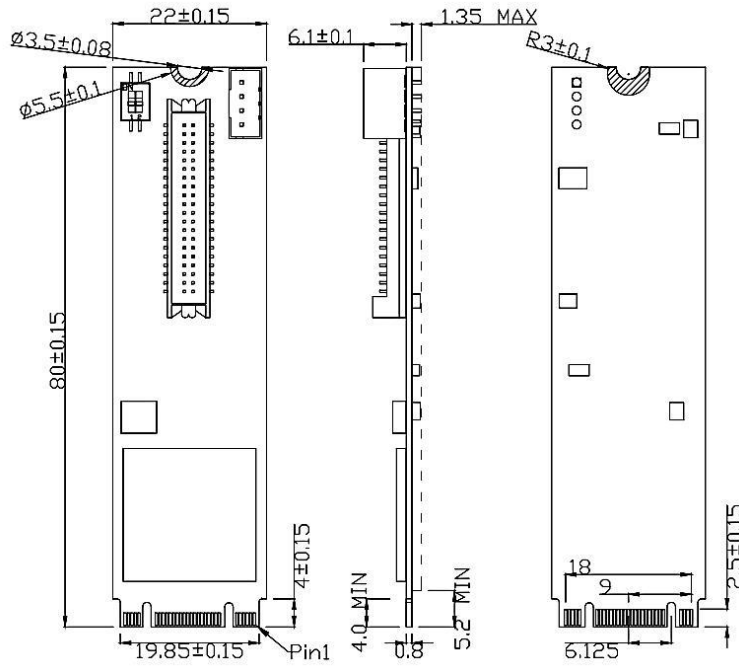
Model Name	Panel Size (inch)	Panel P/N	Resolution (Pixel)	Typical brightness (cd/m ²)	Contrast ratio typ.
MEC-DIS-271Lx-A	10.4	G104STN01.0	800 X 600	400	700:1
MEC-DIS-271Lx-B	10.4	G104XVN01.0	1024 X 768	470	3000:1
MEC-DIS-271Lx-C	12.1	G121XN01 V001	1024 X 768	500	700:1
MEC-DIS-271Lx-D	15	G150XTN03.5	1024 X 768	350	800:1
MEC-DIS-271Lx-E	15.6	G156XW01 V1	1366 X 768	400	500:1
MEC-DIS-271Lx-F	17	G170ETN01.0	1280 X 1024	250	1000:1
MEC-DIS-271Lx-G	19	G190EG01 V1	1280 X 1024	350	1000:1
MEC-DIS-271Lx-H	21.5	G215HVN01.3	1920 X 1080	1000	5000:1

★ If the panel P/N you use is not listed in the table above, please contact our sales team for the correct model name.

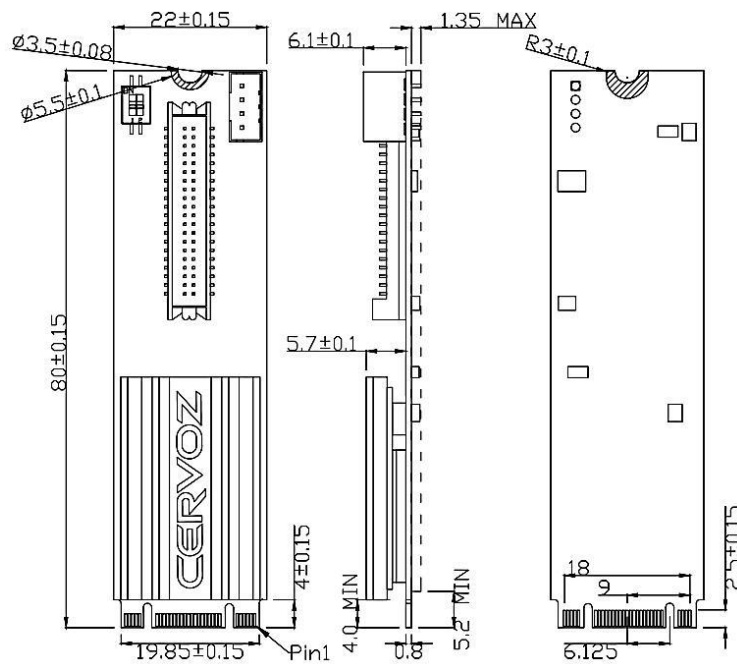


4. Dimensions

5.1 MEC-DIS-271LS



5.2 MEC-DIS-271LW

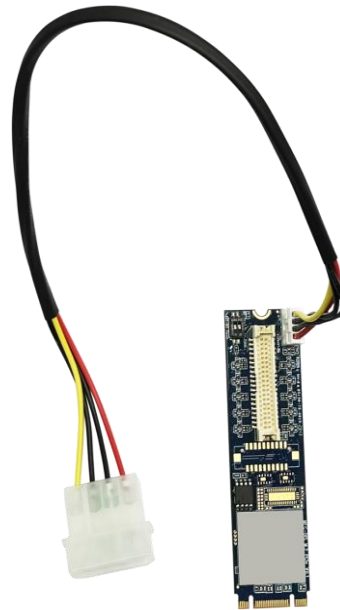




5. Package Checklist

5.1 MEC-DIS-271LS

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



5.2 MEC-DIS-271LW

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

