

## MX-G2000 Industrial Vision Processor

### DESCRIPTION

This guide covers MX-G2000 Industrial Vision Processor. The MX-G2000 series Industrial Vision Processors offer the most powerful and flexible way to solve even complex machine vision applications.

Component Name: MX-G2000

- Low Maintenance
- 16 Inputs and 16 Outputs
- Up to 2.5 Gb/s for the 4 camera supported
- Easily Accessed connectors



Download the MX-G2000 Product Reference Guide by reading the QR code

### SYSTEM SPECIFICATIONS

#### Processor

Intel Core i5-12500TE 12th Gen (Alder Lake) 1.9 - 4.3 GHz 6-core - 35W

#### Storage

512 GB M.2 NVMe SSD

#### GigE camera ports

4 (all are PoE capable)

#### Graphics Processing Unit

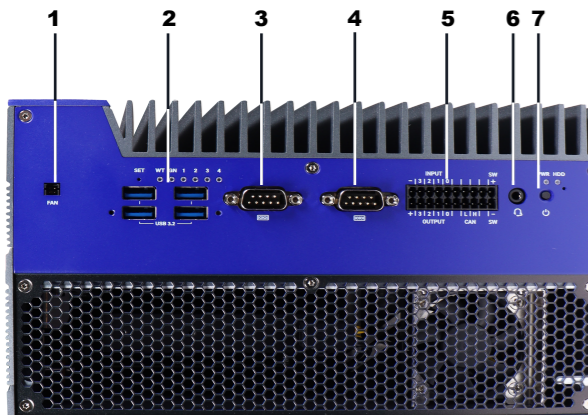
Nvidia RTX A4000 - 16 GB Memory

MX-G2000 Industrial Vision Processors have the following specifications:

- Rugged housing
- 2 Intel 2.5 GbE LAN controller
- 2 x RS232 Serial port
- 16 x Optically Isolated Digital In + 16 x Optically Isolated Digital Out, configurable NPN (sink) or PNP (source) output type.
- Microsoft Windows 10 IoT Enterprise 2021 64-bit

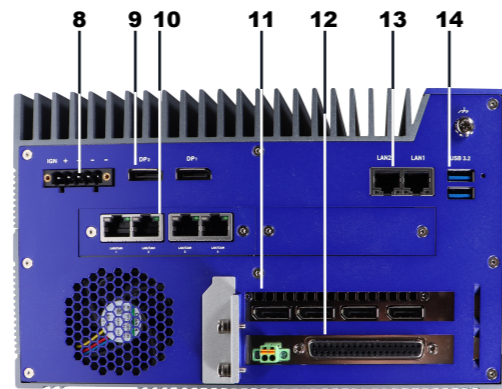
### GENERAL VIEW

#### FRONT



1	DO NOT USE
2	4X USB 3.2 PORTS
3	COM1
4	COM2
5	DO NOT USE
6	3.5 MM AUDIO JACK
7	POWER BUTTON

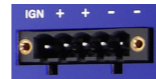
#### BACK



8	PWR INPUT
9	DISPLAY PORTS
10	4X GIGE CAMERA PORTS
11	GPU NVIDIA RTX A4000
12	DIGITAL IO BOARD
13	2X LAN PORTS
14	2X 3.2 USB PORTS

### SUPPLY VOLTAGE CONNECTION (9)

+ 24V Direct Current Plus (DC) x2  
- 24V Direct Current Minus (GND) x2  
IGN – Chassis Ground  
Max Current: 20 Amps



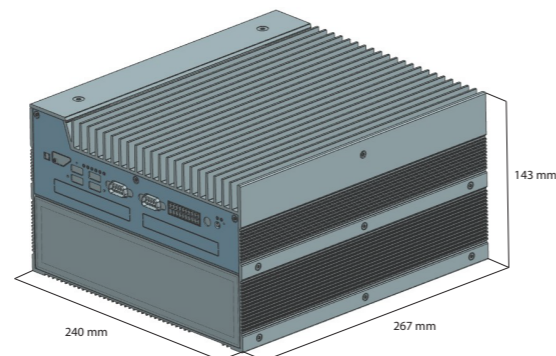
**IMPORTANT NOTE:** It is advised to use all 4 pins for power connection.

### POE ETHERNET SIGNALS AND LIGHTS

	LED	Color	State	Condition
Link	Link LED	Green	Off	LAN link not established
			On	LAN link established
			Blinking	LAN activity occurring
Speed	Speed LED (Green/Yellow)	Green	Off	100 or 10 Mb/s data rate
			Yellow	1000 Mb/s data rate
			Green	2500 Mb/s data rate

### DIMENSIONS

Unit mm.



### DIGITAL I/O PINOUT

PCOM1	015	013	011	09	07	05	03	01	PCOM0	PCOM0	ECOM	115	113	111	19	17	15	13	11	1	19
	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	20	2	18
	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	21	14	16
	016	014	012	010	08	06	04	02	GND	GND	116	114	112	110	18	16	14	12	12	14	16

Pin	Color Code	Signal Name
1	Black	Input 1
2	Brown	Input 3
3	Red	Input 5
4	Orange	Input 7
5	Yellow	Input 9
6	Green	Input 11
7	Blue	Input 13
8	Purple	Input 15
9	Gray	Common pin for external source or ground of Input 1 to Input 16
10	White	PCOM0 NPN: common pin for connecting inductive loads of O 1 to O 8 PNP: common pin for external voltage of O 1 to O 8
11	Pink	Output 1
12	Light Green	Output 3
13	Black/White	Output 5
14	Brown/White	Output 7
15	Red/White	Output 9
16	Orange/White	Output 11
17	Green/White	Output 13
18	Blue/White	Output 15
19	Purple/White	PCOM1 NPN: common pin for connecting inductive loads of O 9 to O 16 PNP: common pin for external voltage of O 9 to O 16
20	Red/Black	Input 2
21	Orange/Black	Input 4
22	Yellow/Black	Input 6
23	Green/Black	Input 8
24	Gray/Black	Input 10
25	Pink/Black	Input 12
26	Pink/Red	Input 14
27	Pink/Blue	Input 16
28	Pink/Green	Isolated ground
29	Light Blue	Isolated ground
30	Light Blue/Black	Output 2
31	Light Blue/Red	Output 4
32	Light Blue/Blue	Output 6
33	Light Blue/Green	Output 8
34	Gray/Red	Output 10
35	Gray/Green	Output 12
36	Purple/Black	Output 14
37	Blue/Black	Output 16

### EXAMPLE I/O DIAGRAMS

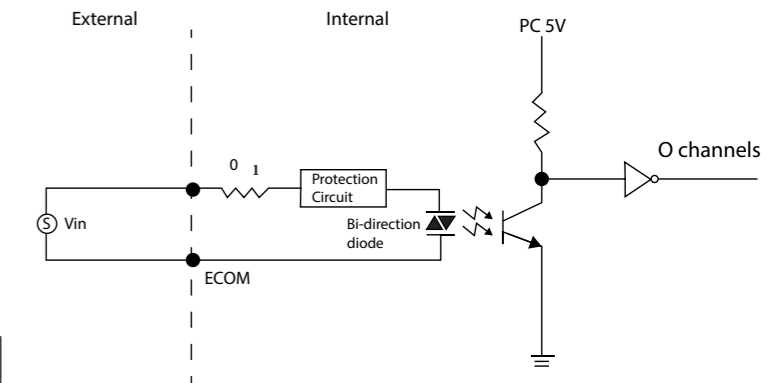


Figure 1 - Input connection

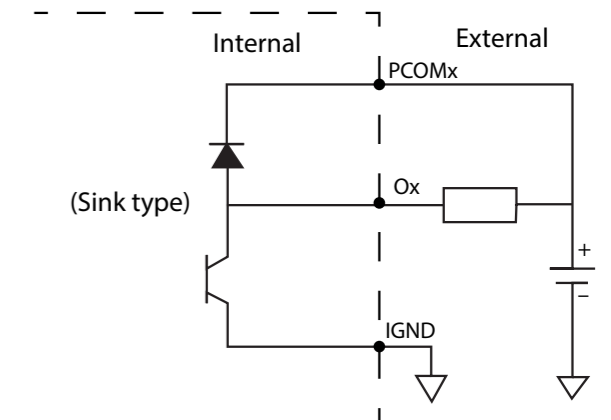


Figure 2 - Output connection (sinking)

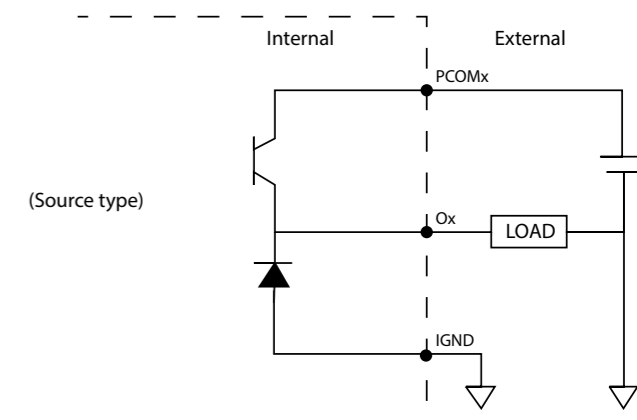


Figure 3 - Output connection (sourcing)

## TECHNICAL DATA

ELECTRICAL FEATURES	
Supply voltage (Vs)	DC 12~48V
Power Consumption	Typical: 100W, 480W in maximum
Digital Inputs	16 opto-isolated, see Digital I/O Specifications.
Input Voltage	Logic 0: 3V max Logic 1: 10V min (30V max) or dry contact.
Input Resistance	3.21kΩ
On Current	>3mA
Off Current	<1mA
Current Maximum	8.5 mA @30VDC
Isolation Protection	2500VDC
Optical isolation response time	100μsec
Overvoltage protection	70VDC
Load Voltage	5 ~ 40VDC
Load Current	350mA (max per channel)
Input current	3.28mA @ 12VDC 6.71mA @24VDC
Digital Outputs	16 opto-isolated (configurable sink-NPN or source-PNP), see Digital I/O Specifications.
Format	Opto-coupler isolated open emitter output
Residual Voltage Output On	2V or less (output current ≤mA)
Optical isolation response time	100μsec
Camera interface	GigE (x4)
USB Ports	6 x USB 3.2
Video Ports	Display Port (x2)
Host Communications:	
Serial Communications	2x RS-232 Serial Port (COM 1 + COM 2)
Ethernet	10/100/1000 Mbps Ethernet x 2
POE LAN	4 x Intel GbE PoE LAN controller, max.15W per channel
PHYSICAL FEATURES	
Dimensions	(L)267mm x (W)240mm x (H)143mm
Weight	7.5 Kg
Housing material	Aluminum-magnesium alloy BOX
ENVIRONMENTAL FEATURES	
Temperature	Operating: -40°C ~ +50°C (-40°F to +122) Storage: -40°C ~ +85°C (-40°F to +185)
Relative Humidity	Operating: 10 to 95%, non condensing Storage: 0 to 95%, non condensing
Vibrations (EN 60068-2-64)	Random: 5 to 500Hz 3g
Vibrations (follow IEC60068-2-64)	5~500Hz, 1.5Grms@with SSD
Shock resistance (follow IEC60068-2-27 EMC: CE/FCC Class A)	k20G peak acceleration (11ms duration) with SSD
EMC	CE/FCC Class A
Isolation Protection	IP 20
SOFTWARE FEATURES	
Minimum Impact Software Version Required	13.4
Minimum Pekat Software Version Required	3.15.2
HARDWARE FEATURES	
CPU	Intel Core i5-12500TE 12th Gen (Alder Lake) 1.9 - 4.3 GHz 6-core - 35W
System Memory	1 x 32 GB SO-DIMM DDR4 2666
Storage	512 GB M.2 NVMe SSD
GPU memory	16GB GDDR6 Interface 256-bit bandwidth 448Gb/s
CUDA Cores	6144
Tensor Cores	192
Performance (TFLOPS3)	Single 19.2 – RT Core 37.4 – Tensor 153.4

## I/O CONFIGURATION

Camera communication uses Cat6 Ethernet cable and provides POE for M1xx and E1xx cameras. Use only Datasensing provided cables.

## SOFTWARE

PEKAT VISION software installed on the processor is used to create projects with recognition methods base on Artificial Intelligence. By default MX-G2000 has physical dongle with Pekat License to handle one camera. Refer to its documentation for programming details.

IMPACT Vision Program Manager (VPM) software installed on the processor is used to create vision programs for traditional machine vision algorithm. Refer to the IMPACT Reference Guide for programming details. Please note that IMPACT software is enabled by a dedicated dongle sold separately.

## DIGITAL I/O CABLES TERMINALS AND CONNECTIONS

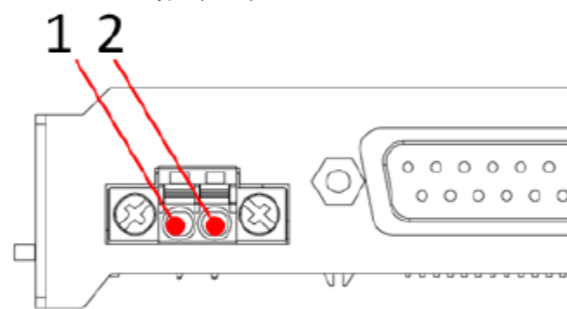
Cable	Part Number
Digital I/O 37-pin to Terminal Block 248-0110	606-0675-xx
Digital I/O 37-pin to pigtail (remove one end)	606-0675-xx

**Note:** Do not disconnect the cable at the connector while power is on.

## EXTRA DIGITAL OUTPUT GROUNDING

The spring clamp connector on the I/O Card provides two extra connections that are equivalent to the GND/PCOM pin on the 37-pin connector and are used to increase the current tolerance on the I/O Card. The spring clamp pins should be connected whenever the combined total output current is higher than 3.2A.

The pin assignments are as follows:  
Pin 1: PCOM, used in source type (PNP) connections  
Pin 2: GND, used in sink type (NPN) connections




Spring Clamp Connector Pin Definition

## SUPPORT THROUGH THE WEBSITE

Datasensing provides several services as well as technical support through its website.

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For quick access, from the home page click on the search icon , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

## PATENT

This product is covered by one or more of the following patents:  
Utility patents: EP2517148B1, EP2649555B1, EP2946338B1, US10095951, US10552699, US10762405, US8888003, US8915443, US9396404, US9495607, US9798948, ZL200980163411.X, ZL201080071124.9

## SEALS

The Industrial Vision Processor has seals in some areas. The seals must not be broken or removed for any reason. The sealed parts may be opened only and exclusively by Datasensing. Breakage of these seals by a customer shall result in immediate cancellation of the warranty on the entire Industrial Vision Processor.

## WARRANTY

The warranty period for this product is 24 months. See General Terms and Conditions of Sales at [www.datasensing.com](http://www.datasensing.com) for further details.

## COMPLIANCE

### EUROPEAN DECLARATION OF CONFORMITY

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## WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## FCC COMPLIANCE

Modifications or changes to this equipment without the expressed written approval of Datasensing could void the authority to use the equipment. This device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## ROHS 3 COMPLIANCE

The parts of the MX-G2000 are comply with the requirements of 2011/65/EU (RoHS II), amended by 2015/863/EU (RoHS 3), on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment.

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## Datasensing S.r.l.

Strada S. Caterina 235 - 41122 Modena - Italy  
Tel. +39 059 420411 - Fax +39 059 253973 - [www.datasensing.com](http://www.datasensing.com)

## ROHS 3 (CHINA ROHS)

DATASENSING

MX-G2000

PART	Metal Parts	Panel (if any)	有毒有害物质或元素					
			铅 (Pb) Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
			X	O	O	O	O	O
			X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。  
○ 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。  
× 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

## MX-G2000 工业视觉处理器

### 说明

本指南涵盖 MX-G2000 工业视觉处理器。MX-G2000 系列工业视觉处理器为解决复杂的机器视觉应用提供了最强大、最灵活的方法。

组件名称: MX-G2000  
低维护  
16 路输入和 16 路输出  
支持高达 2.5 Gb/s 的 4 个摄像头  
易于访问的连接器



通过阅读二维码下载《MX-G2000 产品参考指南》

### 系统规格

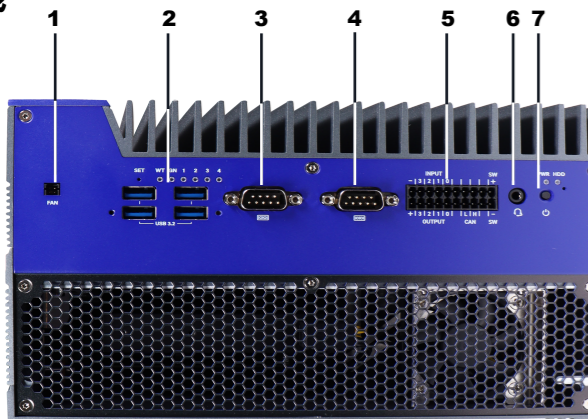
处理器  
英特尔酷睿 i5-12500TE 第 12 代 (Alder Lake) 1.9 - 4.3 GHz 6 核 - 35W  
存储空间  
512 GB M.2 NVMe 固态硬盘  
千兆以太网摄像头端口  
4 个 (均支持 PoE)  
图形处理器  
Nvidia RTX A4000 - 16 GB 内存

MX-G2000 工业视觉处理器具有以下规格:

- 坚固的外壳
- 2 个 Intel 2.5 GbE LAN 控制器
- 2 x RS232 串行端口
- 16 x 光隔离数字输入 + 16 x 光隔离数字输出, 可配置 NPN (灌) 或 PNP (源) 输出类型。
- Microsoft Windows 10 物联网企业版 2021 64 位

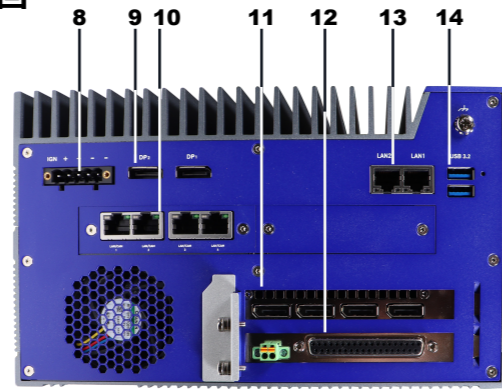
### 总览

### 战线



1	请勿使用
2	4 个 USB 3.2 端口
3	COM1
4	COM2
5	请勿使用
6	3.5 毫米音频插孔
7	电源按钮

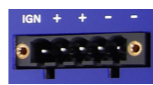
### 返回



8	电源输入
9	显示端口
10	4 个摄像头接口
11	图形处理器 NVIDIA RTX A4000
12	数字输入/输出板
13	2 个 LAN 端口
14	2X 3.2 USB PORTS

### 电源电压连接 (9)

+ 24 伏直流加压 (DC) x2  
- 24 伏直接电流负极 (GND) x2  
IGN - 底盘接地  
最大电流: 20 安培



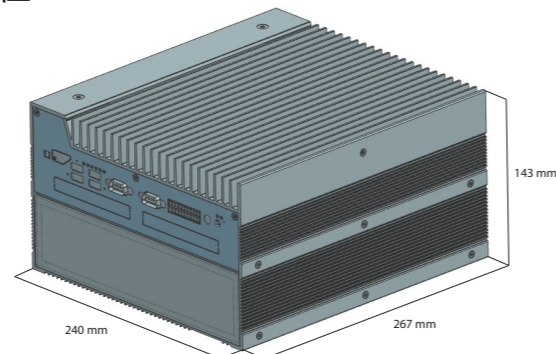
**重要提示:** 建议使用全部 4 个引脚进行电源连接。

### POE 以太网信号和指示灯

LED	Color	State	Condition
Link	-	Off	LAN link not established
	Green	On	LAN link established
	Blinking		LAN activity occurring
Speed	-	Off	100 or 10 Mb/s data rate
	Yellow	On	1000 Mb/s data rate
	Green	On	2500 Mb/s data rate

### 外形尺寸

单位 mm



### 数字 I/O 规格

PCOM1	19	015	18	013	17	011	16	09	15	07	14	05	13	03	12	01	11	PCOM0	10	29	028	27	115	116	111	7	26	113	6	25	111	5	24	19	4	23	17	3	22	15	2	21	13	1	20	11	14	16	12
-------	----	-----	----	-----	----	-----	----	----	----	----	----	----	----	----	----	----	----	-------	----	----	-----	----	-----	-----	-----	---	----	-----	---	----	-----	---	----	----	---	----	----	---	----	----	---	----	----	---	----	----	----	----	----

引脚	颜色代码	信号名称
1	黑	输入1
2	棕色	输入3
3	红色	输入5
4	橙色	输入7
5	黄色	输入9
6	绿色	输入11
7	蓝色	输入13
8	紫色	输入15
9	灰色	输入 1 至输入 16 的外部源或接地的公共引脚
10	白	PCOM0 NPN: 用于连接 O 1 至 O 8 的感性负载的公共引脚 NPN: O 1 至 O 8 的外部电压的公共引脚
11	粉色	输出1
12	浅绿色	输出3
13	黑色/白色	输出5
14	棕色/白色	输出7
15	红色/白色	输出9
16	橙色/白色	输出11
17	绿色/白色	输出13
18	蓝色/白色	输出15
19	紫色/白色	PCOM1 NPN: 用于连接 O 9 至 O 16 的感性负载的公共引脚 NPN: O 9 至 O 16 的外部电压的公共引脚
20	红色/黑色	输入2
21	橙色/黑色	输入4
22	黄色/黑色	输入6
23	绿色/黑色	输入8
24	灰色/黑色	输入10
25	粉色/黑色	输入12
26	粉色/红色	输入14
27	粉色/蓝色	输入16
28	粉色/绿色	隔离接地
29	浅蓝色	隔离接地
30	浅蓝色/黑色	输出2
31	浅蓝色/红色	输出4
32	浅蓝色/蓝色	输出6
33	浅蓝色/绿色	输出8
34	灰色/红色	输出10
35	灰色/绿色	输出12
36	紫色/黑色	输出14
37	蓝色/黑色	输出16

### 输入/输出示例图

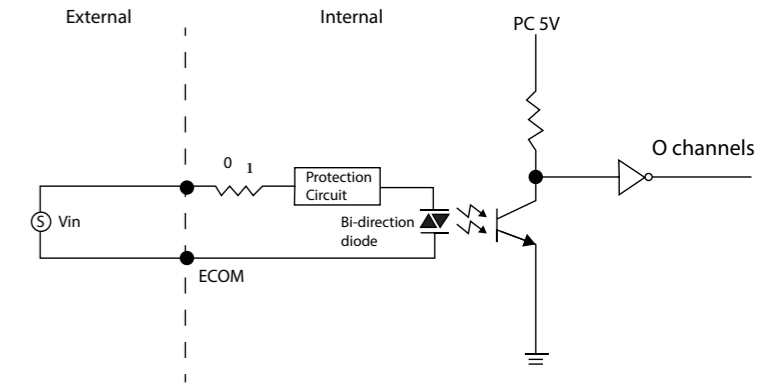


图 1 - 输入连接

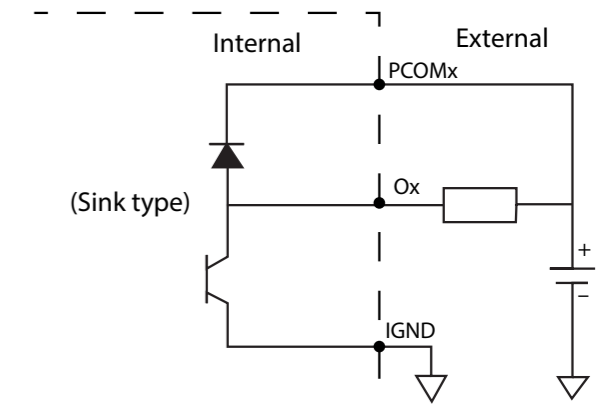


图 2 - 输出连接 (灌电流)

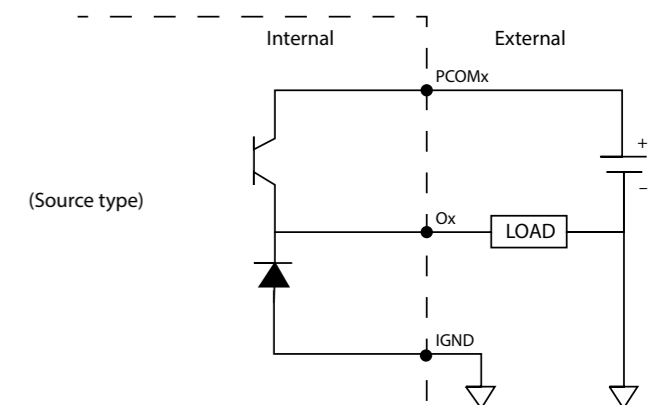


图 3 - 输出连接 (拉电流)

## 技术数据

电气特征	
电源电压 (Vs)	DC 12~48V
耗电量	典型值: 100 瓦, 最大值 480 瓦
数字输入	16 光隔离, 请参阅数字 I/O 规格。
输入电压	逻辑 0: 3V 最高 逻辑 1: 10V 最低 (30V 最高) 或干式接点。
输入电阻	3.21kΩ
开启电流	>3mA
关闭电流	<1mA
最大电流	8.5 mA @30VDC
隔离保护	2500VDC
光学隔离响应时间	100μsec
过压保护	70VDC
负载电压	5 ~ 40VDC
负载电流	350mA (每通道最大)
输入电流	3.28mA @ 12VDC 6.71mA @24VDC
数字输出	16 光隔离 (可配置灌电流 NPN 或拉电流 PNP), 请参阅数字 I/O 规格。
格式	光耦合器隔离开路发射极输出
剩余电压输出开	2V 或更低 (输出电流≤mA)
光学隔离响应时间	100μsec
相机接口	千兆以太网 (x4)
USB 端口	6 x USB 3.2
视频端口	显示端口 (x2)
主机通信:	
串行通信	2 个 RS-232 串行端口 (COM 1 + COM 2)
以太网	10/100/1000 Mbps 以太网 (2 个)
POE 局域网	4 x Intel GbE PoE LAN 控制器, 每通道最大 15W
物理特征	
尺寸	(长)267 x (宽)240 x (高)143 (mm)
重量	7.5 公斤
外壳材料	铝镁合金箱体
环境特征	
温度	工作温度: -40°C ~ +50°C (-40°F 至 +122) 存储: -40°C ~ +85°C (-40°F 至 +185)
相对湿度	工作温度 10% 至 95%, 无冷凝 储存: 0 至 95%, 无冷凝
振动 (EN60068-2-64)	随机: 5 至 500 赫兹 3g
振动 (遵循 IEC60068-2-64 标准)	5~500Hz, 1.5Grms@with SSD
抗冲击性 (遵循 IEC60068-2-27 EMC 标准: CE/FCC A 级)	k20G 峰值加速度 (持续时间 11 毫秒), 带固态硬盘
EMC	CE/FCC A 级
隔离保护	IP 20
软件功能	
所需的最低影响软件版本	13.4
最低 Pekat 软件要求 所需版本	3.15.2
硬件特征	
CPU	英特尔酷睿 i5-12500TE 第 12 代 (Alder Lake) 1.9 - 4.3 吉赫 6 核 - 35 瓦
系统内存	1 x 32 GB SO-DIMM DDR4 2666
存储	512 GB M.2 NVMe 固态硬盘
GPU 内存	16GB GDDR6 接口 256 位 带宽 448Gb/s
CUDA 内核	6144
张量内核	192
性能 (TFLOPS3)	单机 19.2 - RT 核心 37.4 - 张量 153.4

## I/O 配置

摄像头通信使用 Cat6 以太网电缆, 为 M1xx 和 E1xx 摄像头提供 POE。请仅使用 Datasensing 提供的电缆。

## 通信

处理器上安装的 PEKAT VISION 软件用于创建基于人工智能识别方法的项目。默认情况下, MX-G2000 带有 Pekat License 的物理加密狗, 可处理一个摄像头。有关编程详情, 请参阅其文档。

安装在处理器上的 IMPACT 视觉程序管理器 (VPM) 软件用于创建传统机器视觉算法的视觉程序。有关编程详情, 请参阅《IMPACT 参考指南》。请注意, IMPACT 软件通过单独出售的专用加密狗启用。

## 数字 I/O 电缆终端和连接

电缆	部件号
37 针数字 I/O 至端子块 248-0110	606-0675-xx
37 针数字 I/O 至尾纤 (去除一端)	606-0675-xx

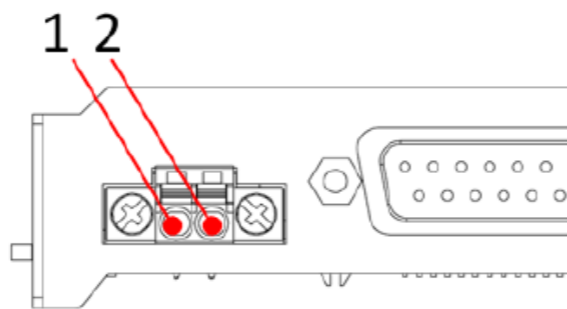
**注意:** 切勿在电源通电时连接电缆。

## 额外的数字输出接地

I/O 卡上的弹簧夹连接器提供两个额外的连接, 相当于 37 针连接器上的 GND/PCOM 引脚, 用于增加 I/O 卡上的电流容差。只要总输出电流高于 3.2A, 就应连接弹簧夹引脚。

引脚分配如下:

引脚 1: PCOM, 用于拉电流类型 (PNP) 连接  
引脚 2: GND, 用于灌电流类型 (NPN) 连接




弹簧夹连接器引脚定义

## 通过网站获取支持

Datasensing 通过网站提供多项服务以及技术支持。

登录 [www.datasensing.com](http://www.datasensing.com)。

要进行快速访问, 请从主页单击搜索图标 , 并输入您想要查找的产品名称。

您可以下载数据表、说明书、软件和实用工具以及图纸。

## 专利

该产品受以下一项或多项专利保护:

实用专利: EP2517148B1、EP2649555B1、EP2946338B1、US10095951、US10552699、US10762405、US8888003、US8915443、US9396404、US9495607、US9798948、ZL200980163411.X 和 ZL201080071124.9

## 封条

工业视觉处理器的某些区域有封条。封条不得以任何理由撕毁或移除。贴有封条的零件仅可由 Datasensing 打开。如果客户撕毁这些封条, 则将导致整个工业视觉处理器的保修立即失效。

## 保修

本产品的保修期为 24 个月。有关详细信息, 请访问 [www.datasensing.com](http://www.datasensing.com) 并参阅“一般销售条款和条件”。

## 符合性

欧洲符合性声明

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UKCA 符合性声明

Datasensing S.r.l. 特此声明, UKCA 符合性声明的全文可在以下网址获得: [www.datasensing.com](http://www.datasensing.com)。可从产品页面的下载部分选择链。

## 警告

本产品属于 A 类产品。本产品在室内环境中可能造成无线电干扰, 在这种情况下, 用户可能需要采取适当的措施。

## FCC 符合性

如果未经 Datasensing 的明确书面许可而对此设备进行修改或更改, 可能导致无权使用此设备。

此设备符合 FCC 规则的第 15 部分。操作应满足以下两个条件: (1) 此设备不会造成有害干扰, 并且 (2) 此设备必须接受所接收到的任何干扰, 包括可能造成非期望操作的干扰。

根据 FCC 规则的第 15 部分, 该设备已经过检测, 并发现其符合 A 类数字装置的限制。这些限制专用于在设备于商业环境中操作时提供合理保护, 以防受到有害干扰。此设备将产生、使用并可放射无线电频率能量, 如果不按照说明书加以安装和使用, 则可能会对无线电通信造成有害干扰。

此设备在居民区运行时可能造成有害干扰, 在这种情况下, 用户必须自费校正干扰。

## ROHS III 符合性

MX-G2000 的部件符合经 2015/863/EU (RoHS 3) 修订的 2011/65/EU (RoHS II) 关于在电气和电子设备中限制使用某些有害物质的要求。

## 法律声明

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Datasensing S.r.l.

Strada S. Caterina 235 - 41122 Modena - Italy

Tel. +39 059 420411 - Fax +39 059 253973 - [www.datasensing.com](http://www.datasensing.com)

## ROHS 3 (中国 ROHS)

DATASENSING

MX-G2000

PART	Metal Parts	Panel (if any)	有毒有害物质或元素					
			铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
			X	○	○	○	○	○
			X	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。  
○ 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。  
× 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

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