



NP-61xx 产品介绍

1.5

2020-3-20

Automation PC



1 NP-6111

书本式低功耗 Automation PC.



1.1 产品简介

1.1.1 中文

NP-6111 及其系列产品为诺达佳 Automation PC 系列中的一款低功耗无风扇书本式工控机，秉承功能完备、高性价比的理念，紧凑美观的外形和无线缆设计，机壳采用高精铝合金型材，采用大面积铝鳍作为 CPU 散热器，结构紧凑、外形小巧兼具强固性，无风扇设计，全封闭的结构防止粉尘进入，保障产品的可靠性和使用寿命。

NP-6111-J1900 系列工控机搭载 Intel® Celeron J1900 2.0GHz 多核处理器，4GB 内存，载板提供 2 个 Intel i210 千兆网卡，支持 EtherCAT 和巨型帧；4 个 USB 接口，其中 1 个 USB3.0，3 个 USB2.0，另外板内提供 USB 接口可供插入硬件加密狗；2 个光电隔离的串口(RS232/RS485 可选)；板内预留 miniPCIE 接口，可扩展 CAN、Wifi、4G 等各种模块；系统支持 DC12~24V 供电；所有接口位于前面板，更加方便维护和安装；

该产品被广泛应用于机械检测设备、机器人、运动控制等自动化领域。

1.1.2 英文

The control cabinet mounting Automation PC family low power consumption solution NP-6111 series are based on Celeron J1900 2.0GHz Quad-core 64 bit processor of the Intel® Bay Trail™ System On Chip platform. The systems are supplied with fanless sturdy and highly refined aluminium chassis housing, combining performances, design, ergonomic and configurability.

The system physical structure is designed as modular concept. And all of the ports are designed in the single side, on the front, which will be very easy to do wiring and maintenance. The motherboard provides two independent Intel i210AT Gbe LAN controller that support EtherCAT master stack, Ethernet communication functionalities, DVI-D video output can be connected to any monitor stably, one USB3.0 and three USB2.0 ports, additionally one USB2.0 on the board can be used to install USB dongles, two serial ports support RS232 or RS485 which can be selected by the switch in the lower side, while dual power input connectors can make the power supply more stably.

NP-6111 is an excellent performance/price ratio platform and can be used widely in different application areas as a controller.

2 NP-6122

书本式高性能 Automation PC



2.1 产品简介

2.1.1 中文

NP-6122 及其系列产品为诺达佳 Automation PC 系列中的一款高性能无风扇书本式工控机，秉承功能完备、高性价比的理念，紧凑美观的外形和无线缆设计，机壳采用高精铝合金型材，采用大面积铝鳍和铜管精心设计的散热系统，结构紧凑、外形小巧兼具强固性，全封闭的结构防止粉尘进入，保障产品的可靠性和使用寿命。

NP-6122 系列产品采用 Intel® H110 芯片组，同时支持 6 代、7 代、8 代 Intel® Core™ i7/i5/i3 以及 Intel LGA 1151 针的 pentium/Celeron 等高性能 CPU。载板提供 DVI-D 和 HDMI 显示接口；2 个 Intel i210 千兆网卡，支持 EtherCAT 和巨型帧；4 个 USB3.0 接口，另外板内提供 USB 接口可供插入硬件加密狗；2 个光电隔离的串口，支持 RS232 和 RS485；板内预留 miniPCIE 接口，可扩展 CAN、Wifi、4G 等各种模块；系统支持 DC12~24V 供电；所有接口位于前面板，更加方便维护和安装；广泛应用于制药、包装、机械检测设备、机器人、运动控制等自动化领域。

2.1.2 英文

The control cabinet mounting Automation PC family NP-6122 series are high performance platform, based on the Intel H110 Express Chipset and support Intel® Core™ 6th/7th generation i3,i5,i7, Pentium, Celeron and LGA1151 processors, the

systems are supplied with sturdy and highly refined aluminium chassis housing with fan assisted cooling, combining performances, design, ergonomic and configurability.

The system physical structure is designed as modular concept. NP-6122 series is composed by core module, motherboard and the add-on board for the expansion. The core module will bring the advantage of flexibility for platform exchange and upgrade, as well as the better cost control. And all of the ports are designed in the single side, on the front, which will be very easy to do wiring and maintenance. The motherboard provides two independent Intel i210AT Gbe LAN controller that support EtherCAT master stack, Ethernet communication functionalities, DVI-D and HDMI video output can be connected to any monitor stably, four USB3.0 ports, two RS232 serial ports can be changed to support RS485 optionally by the switch in the lower side, while dual power input connectors can make the power supply more stably. The product has been tested with many real-time OS and has got a good performance result.

3 NP-6122-H1

面向自动化和机器视觉应用的高性能书本式 Automation PC



3.1 产品简介

3.1.1 中文

NP-6122-H1 及其系列产品为诺达佳 Automation PC 系列中的一款面向自动化和机器视觉应用的高性能工控机，秉承功能完备、高性价比的理念，紧凑美观的外形和无线缆设计，机壳采用高精铝合金型材，采用大面积铝鳍和铜管精心设计的散热系统，结构紧凑、外形小巧兼具强固性，全封闭的结构防止粉尘进入，保障产品的可靠性和使用寿命。

该产品把视觉应用中的高性能处理器工控机以及光源控制器功能融为一体，使其成为高计算能力、高实时性以及多功能性的完美视觉系统平台。整个产品系列采用模块化的硬件设计理念，NP-6122-H1 由 NP-6122 和扩展功能板 H1 组成，产品采用 Intel® H110 芯片组，同时支持 6 代、7 代、8 代 Intel® Core™ i7/i5/i3 以及 Intel LGA 1151 针的 pentium/Celeron 等高性能 CPU。载板提供 DVI-D 和 HDMI 显示接口；2 个 Intel i210 千兆网卡，支持 EtherCAT 和巨型帧；4 个 USB3.0 接口，另外板内提供 USB 接口可供插入硬件加密狗；2 个光电隔离的串口，支持 RS232 和 RS485；板内预留 miniPCIE 接口，可扩展 CAN、Wifi、4G 等各种模块；扩展功能板提供 4 个独立的 Intel i210AT PoE 千兆网口；4 路光源 PWM 控制接口；4 路光源外部触发信号输入；16 路隔离 DI/DO 可供用户进行功能自定义。系统采用 DC12~24V 供电，具有过流，过压及反接保护；所有接口位于前面板，更加方便维护和安装；广泛应用于 3C 制造、制药、包装、机械检测设备、机器人、运动控制等领域。

3.1.2 英文

The control cabinet mounting Automation PC family NP-6122 series are high performance platform, based on the Intel H110 Express Chipset and support Intel® Core™ 6th/7th generation i3,i5,i7, Pentium, Celeron and LGA1151 processors, the systems are supplied with sturdy and highly refined aluminium chassis housing with fan assisted cooling, combining performances, design, ergonomic and configurability.

The system physical structure is designed as modular concept. NP-6122 series is composed by core module, motherboard and the add-on board for the expansion. The core module will bring the advantage of flexibility for platform exchange and upgrade, as well as the better cost control. And all of the ports are designed in the single side, on the front, which will be very easy to do wiring and maintenance. The motherboard provides two independent Intel i210AT Gbe LAN controller that support EtherCAT master stack, Ethernet communication functionalities, DVI-D and HDMI video output can be connected to any monitor stably, four USB3.0 ports, two RS232 serial ports can be changed to support RS485 optionally by the switch in the lower side, while dual power input connectors can make the power supply more stably or can be optionally connect to UPS module with external battery pack. The flexible add-on board can be customized for the special application to extend more peripheral port. One product of NP-6122 series is NP-6122-H1, which is specially designed for the automation solutions combined with vision system, motion control or robotic control and industrial fieldbus EtherCAT communication, so the add-on board has provided four independent Intel i210 Gbe LAN controller with PoE technology for camera devices, four channels light source control output, four channels light source external trigger signal interface and additionally eight channels digital input and eight channels digital output for the user defined. The product has been tested with many real-time OS and has got a good performance result. The high performance NP-6122-H1 products can be used in 3C manufacturing, pharmaceutical, packaging, mechanical testing equipment, robotics, motion control and other fields.