

SRP-M2i240-A

PC-Based Cabinet Controller with CODESYS Control Runtime and Visualization

NEW



Features

Open Control Solution-Ready-Package with PC-Based Cabinet Controller

- Intel® Celeron® J1900 2.0GHz processor with 4GB DDR3L memory
- 2 x GbE LAN, 1 x USB3.0, 3 x USB2.0 ports, 4 COM ports, 1x DP, 1x HDMI, 2 x mPCIe, and 4DI/4DO
- Supports iDoor technology providing flexible I/O and wireless options
- 2MB MRAM for control data memory retained function
- Microsoft Windows Embedded 7 Pro 32 bit installed

CODESYS Control Runtime and Visualization

- Preinstalled CODESYS control runtime and visualization
- Supports PLCopen IEC-61131-3 standard programming languages
- Supports real-time industrial fieldbus protocols
- Support Visualization (Target & Web) for Management

Introduction

SRP-M2i240 is a complete solution-ready-package that includes a PC-based cabinet controller with a fanless high-performance Intel Celeron processor, DIN rail, 128 GB SSD, 2MB MRAM, Microsoft Windows Embedded 7 Pro, and CODESYS control runtime and visualization. Advantech developed its SRP-M2i240 solution to serve as a single integrated interface for conducting real-time machine control. Compliant with the IEC 61161-3 international standard, SRP-M2i240 supports object-oriented programming (OOP), allowing users to effectively reduce development time. Moreover, by enabling dual fieldbus data acquisition (PROFINET, EtherCAT, EtherNet/IP, CANopen, and Modbus TCP/RTU), SRP-M2i240 provides a cost-effective tool for control, communication, and HMI functions in vertical industries.

Content of the Open Control Solution-Ready-Package for Industry 4.0

- PC-based cabinet controller
- iDoor CANopen
- 128GB SSD and 2MB MRAM
- Microsoft Windows Embedded 7 Pro 32-bit
- CODESYS Control Runtime with Softmotion + Visu. (Tar. & Web.)

Open Control Solution Specifications

One Open Controller for all Control Systems

- Supports the main fieldbus configurations and portable protocol stacks
 - PROFINET (Master)
 - EtherCAT (Master)
 - EtherNet/IP (Master)
 - CANopen
 - Modbus TCP (Server/Client)
 - Modbus RTU (Master)
- Flexible selection of object-oriented IEC 61131-3 (FBD, LD, IL, ST, SFC) standard programming languages
- Integrated control runtime & visualization allows users to develop the HMI screen in parallel to the IEC 61131-3 program
- Easy hardware configuration by iDoor technology for flexible I/O expansion and wireless communication options

High-Performance CPU for Real-Time Application Control

- Intel Celeron CPU both for entry and high performance requirements
- Optimized system BIOS setting guarantees the consistent CPU clock rate for real-time control

Visualized Control of Field Operations and Remote Mobile Clients

- Creates visualized HMI on extended touch panel for on-site operation
- Supports browser-based (HTML5) visualization enabling remote operating on iOS/Android mobile devices
- The complete visualization screens can be deposited into a library and reused as IEC 61131-3 function blocks

Reliable Controller Designed for Harsh Environment

- Includes MRAM for memory retained to secure record control data
- DIN-rain mounting fanless compact design for higher reliability and less maintenance effort
- Supports remote system status monitoring by WISE-PaaS/RMM
- Approved certifications: BSMI, CCC, CE, FCC Class A, UL
- Wide operating temperature

Configuration Options

Series	Visualized Cabinet Controller
Part Number	SRP-M2i240-A
Platform	UNO-1372G-J021AE
Operating System	Microsoft Windows Embeddd 7 Pro (32 bit)
Control Software	CODESYS V3.5 SP10 control RTE with Softmotion + Visu. (Tar. & Web.)
Form Factor (With Front-Accessible I/O)	Small size
CPU	Intel Celeron J1900, 2GHz
Memory	4GB DDR3L
Backup Memory	2MB MRAM
Display Type	HDMI:1920x1080 @ 60Hz 1 x DP, supports 2560 x 1440 @ 60Hz
Storage	128GB SSD
Diagnostics LED	LEDs for power, RTC battery, LAN (active, status), COM (Tx/Rx), HDD, programmable LED
Expansion Slots	2 x Full size mPCIe slots
Mounting	DIN-rain, wall
Network(LAN)	2 x RJ45, 10/100/1000 Mbps Base-T (LAN A/B: Intel i210)
I/O Port	4 x RS232/422/485, DB9, 3 x USB2.0, 1 x USB 3.0, 4 ch DI/O
iDoor Expansion	1 x CANopen
Dual DC Power Input (Voltage)	10 ~ 36 V DC
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Dimensions (WxDxH)	65 x 105 x 150 mm (2.6" x 4.1" x 5.9")
Certification	CE, FCC, UL, CCC, BSMI

Ordering Information

- **SRP-M2i240-A** UNO-1372G-J021AE, RTE with Softmotion & Vis., 4GB RAM, CANopen, 128GB SSD, WES7P

Accessories

- **1702002600** Power cable (US) 1.8 M
- **1702002605** Power cable (EU) 1.8 M
- **1702031801** Power cable (UK) 1.8 M
- **1700000596-11** Power cable (China/Australia) 1.8 M
- **PWR-247-CE** ADP A/D 100-240V 60W 24V