



General-purpose AMR Controller

SRC-2000-I(S)

High Performance Makes all Things Possible



Easy Manufacturing of AMRs

Overall basic functions and rich optional functions make it easy to adapt to build various types of carrying robots.



A Wide Range of Interfaces Meet all Kinds of Needs

Rich external interfaces and communication buses are provided; multi-sensor security protection is supported; a variety of communication protocols are satisfied.



3D Obstacle Detection, More Secure

3D vision sensors are added to identify and detect stereoscopic obstacles and to choose to stop or go around them depending on the configuration.



Wide Range of Applications in Many Scenarios

Single steering wheel motion model is supported, which can meet the requirements for different application of various robots.



±5 mm Positioning Accuracy, Precise and Efficient

Support multiple navigation methods, and the positioning accuracy can reach up to ±5 mm, meeting the application needs of high-precision scenarios. The optional industrial-grade Wi-Fi client module ensures more stable and efficient operation.

Parameter Specification

● Standard ○ Optional

Basic parameters

Product name	General-purpose AMR Controller
Weight	1.41 kg
L x W x H	225 x 128 x 84 mm

Digital input & output

Power DO	8-Way (single-loaded 24 V / 2 A; 8-Way total load capacity ≤5 A)
DO	2-Way (400 mA)
DI	11-Way (NPN)

Bus interface

CAN	2-Way
RS485	3-Way
Battery communication interfaces	1-Way (RS485 / RS232 optional interface)

Internet interface

Ethernet	6+1 Way Gbps (1 is for extended Wi-Fi client)
Wi-Fi	Wi-Fi 6: Dual-band 2.4G / 5G 802.11ax 2T2R

Other interfaces

USB3.0	4-Way
Audio input / output	1-Way / 1-Way

Robot-specific functions

One-button power ON / OFF	1-Way
Battery switch	2-Way
Emergency stop input	1-Way
Emergency stop output	2-Way

Performance parameters

Navigation accuracy	±5 mm, ±1°
Driving speed	≤2 m/s
Map area (single frame)	≤400000 m ²

Function configurations

Basic functions	●
Advanced motion model	○
Advanced recognition function	○
Advanced location function	○
Codesys	-

Working environment parameters

Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation
Working voltage	24 V
Power consumption	48 W (excluding DO output current)
IP rating	IP42

Certifications

CE	Conform to EN 61010-1:2010, CE-EMC (IEC 61326-1) Standards
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Dimension (mm)

