OMRON

Mobile Robots
Enterprise Manager (EM2100)

Hardware and software solution that enables management of Autonomous Mobile Robot (AMR) fleets

• Fleet management:

-Supervises and coordinates the entire fleet of up to 100 AMRs

-Automatically plans routes to prevent collisions

-Optimizes traffic flow of multiple AMRs to improve efficiency

-Provides a single control point for all connected AMRs

• Robust hardware platform:

-Dedicated solely to fleet management

-Runs as an appliance NOT a server

-Minimal maintenance required

-Supports backup/redundant units to eliminate downtime due to unforeseen hardware failure

Ordering Information

Appearance	Product Name	Specification	Configuration & Attachment	Part Number
	Primary Fleet Manager		EM2100 Appliance w/120 day TEMPORARY PRIMARY FLOW License	20271-900
	Secondary Fleet Manager		EM2100 Appliance w/120 day TEMPORARY SECONDARY FLOW License	20271-901
	Fleet Simulator	Simulation of up to 10 AMRs	EM2100 Appliance with Simulation license included	20271-903
	5 Year License (Primary Fleet Management)		5 year license activation for primary fleet management	20271-806
	Fleet Simulator License	Simulation of up to 10 AMRs	License activation for Fleet Simulation (Add-on License for Primary or Secondary Fleet Managers	20271-804
	5 Year License (Secondary Fleet Management)		5 year license activation for secondary fleet management	20271-807
	MobilePlanner	Version 4.x	Installer (USB)* License Dongle MSS 4.x compatible only (NOT COMPATIBLE with FLOW Core)	13495-200

* To obtain the latest version of the Fleet Operations Workspace (FLOW) Core software, contact your local OMRON representative.
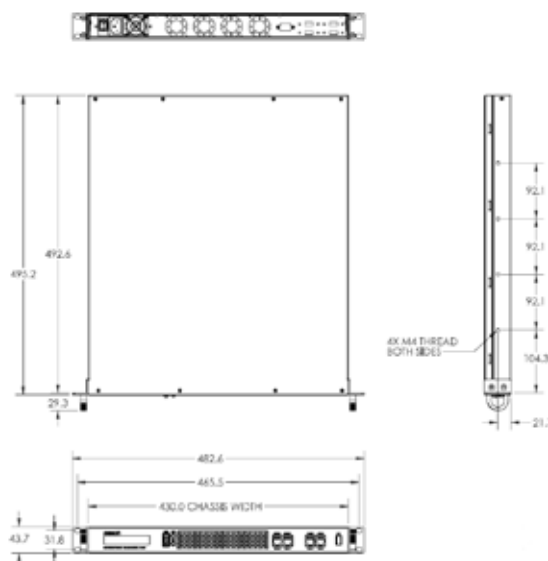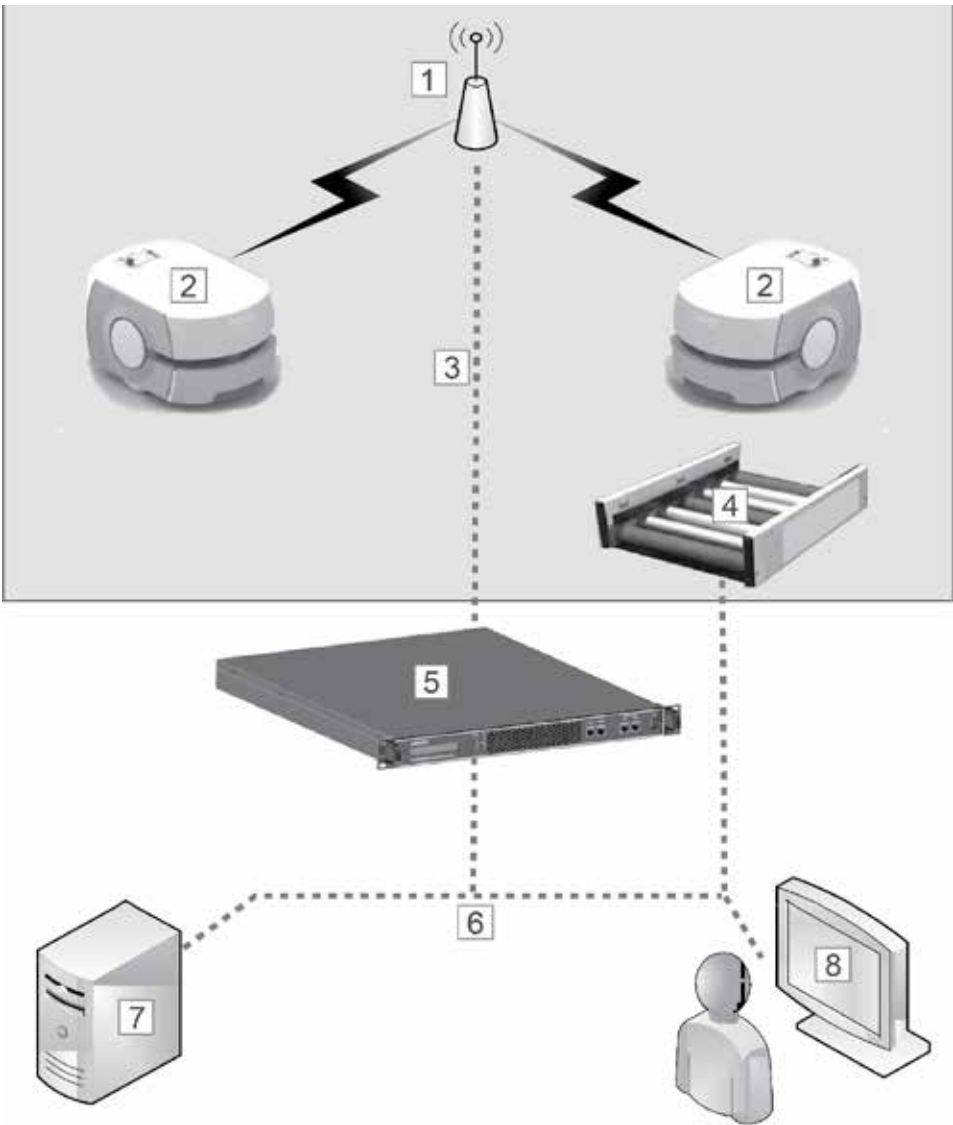
Specifications

Enterprise Manager 2100

Dimensions - W × D × H	430 × 492.8 × 43.2 mm
Weight	9.1 kg
Mounting method	1U rack mount in a standard 19-inch equipment rack
Power Supply	100-240 VAC *
Power Consumption	200W max.
Operating Temperature	10 to 35 °C
Storage Temperature	-25 to 60 °C
Operating Humidity	8 to 90%, non-condensing
Storage Humidity	5 to 95%, non-condensing
Chassis protection class	IP20
CPU	Intel® Xeon® CPU
Main Memory	32 GB DDR3
Storage	60 GB SSD
Archive Storage	4 TB HDD
Communication port	10/100/1000 Ethernet × 4, USB × 4, VGA
Status Display	Multi-segment LCD

* typical 100 W

Dimensions (Unit: mm)

Item

1	802.11a/b/g WiFi access point.
2	AMRs configured to connect to the EM2100 Fleet IP address
3	Local Area Network (LAN)
4	Automated factory equipment such as a conveyor
5	EM2100 running Mobile Robot software components

Related Manuals

Manual No.	Title
I611	Mobile Robots LD Platform User Guide
I612	Mobile Robots LD Cart Transporter User Guide
I613	Mobile Robots LD Platform Peripherals Guide
I614	Mobile Robots Software Suite User Guide
I615	Enterprise Manager User Guide
I616	Mobile Robot Safety Guide
I617	Advanced Robotics Command Language Reference Guide
I618	Advanced Robotics Command Language Enterprise Manager Integration Guide

• Intel, Xeon and Intel Xeon are trademarks of Intel Corporation in the U.S. and/or other countries.
• Other company names and product names in this document are the trademarks or registered trademarks of their respective companies.
• The product photographs and figures that are used in this catalog may vary somewhat from the actual products.
• Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.

omron

Authorized Distributor:

Controllers & I/O
• Machine Automation Controllers (MAC) • Motion Controllers
• Programmable Logic Controllers (PLC) • Temperature Controllers • Remote I/O

Robotics
• Industrial Robots • Mobile Robots

Operator Interfaces
• Human Machine Interface (HMI)

Motion & Drives
• Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
• Frequency Inverters

Vision, Measurement & Identification
• Vision Sensors & Systems • Measurement Sensors • Auto Identification Systems

Sensing
• Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
• Rotary Encoders • Ultrasonic Sensors

Safety
• Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
• Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
• Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components
• Power Supplies • Timers • Counters • Programmable Relays
• Digital Panel Meters • Monitoring Products

Switches & Relays
• Limit Switches • Pushbutton Switches • Electromechanical Relays
• Solid State Relays

Software
• Programming & Configuration • Runtime