

RZ Ecosystem Partner Solution

FPT NextAMR - Autonomous Mobile Robot



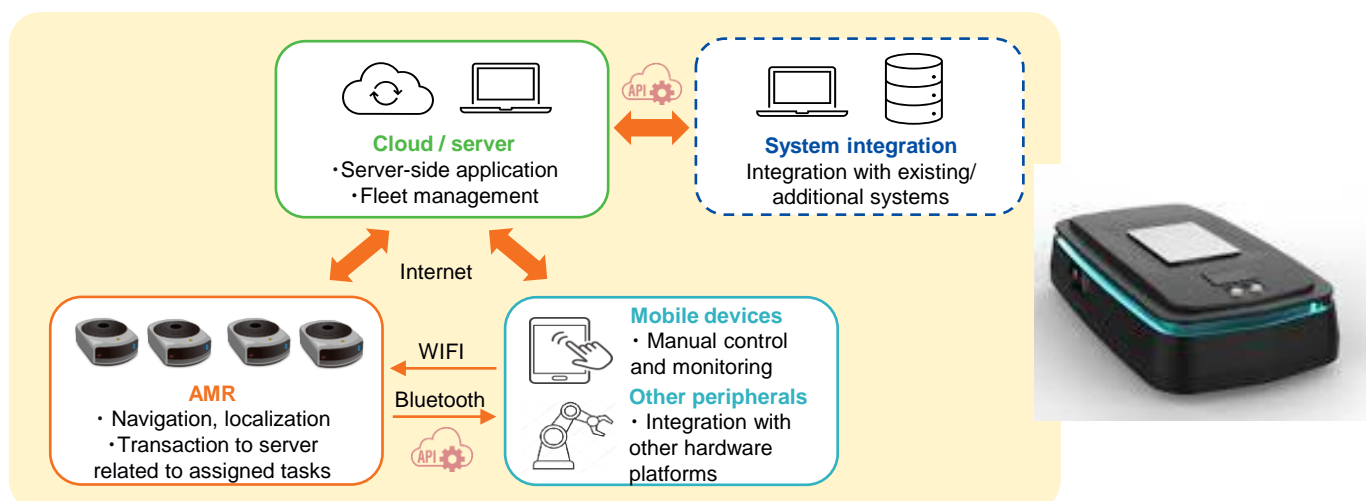
Solution Summary

NextAMR is an AI-equipped autonomous mobile robot, focusing on the low and mid payload segment. Unlike conventional AGV, NextAMR can operate without dedicated rails, automatically searching for the optimal route, maneuvering skillfully in environments with people and other obstacles. The solution can control autonomous running of each robot, and manage the collaboration of multiple robots at the same time. Low power efficiency and real-time processing are made possible by using [RZ/V series](#).

Features/Benefits

- Navigation and localization
 - SLAM mapping & localization
 - Path planning, motion control
 - Obstacle detection, mission management
- Fleet management
 - Centralized robot configuration
 - Vehicle monitoring, battery charge management
 - Dynamic mapping, optimal task scheduling
 - Existing systems (MES / WMS) and API / SDK for equipment integration

Diagrams/Graphics



Target Markets and Applications

- Cargo transportation at factories and warehouses of manufacturers, logistics companies.
- Robot manufacturers.

Advantages

<p>Safety Able to avoid static and dynamic obstacles</p>	<p>Scalability Efficient at robot fleet management</p>	<p>Integration Speedy to program with the user-friendly interface</p>
<p>Flexibility Cost-efficient to customize with various modules (lifting, towing, robot arm, etc.)</p>	<p>Efficiency Flexible to choose the most efficient path and automatically calculate the alternative one</p>	<p>Agility Comfortable to modify the robot setup for changes in factory floors and processes</p>

Reasons to be chosen



Speedy motion
Maximum speed
5m/s



High precision
Localization accuracy
 ± 1 cm and $\pm 1^\circ$



Easy integration
Smoothly integrated with third party products



Real-time operation
Real-time monitoring and software updates



Flexible customization
Support customization and integration with existing systems to meet diverse needs

Company information

URL	https://www.fpt-software.jp/
Company name	FPT Software Company Limited (subsidiary of FPT Corporation)
Employee	More than 22,000 people
Headquarters	Hanoi, Vietnam
Location	26 countries and regions
Services	Business application services, DX services, cloud professional services, data analysis, IoT, mobility, embedded systems, CAD / CAE, IC design, BPO, AI solutions
URL	https://www.fpt-software.jp/company-information/fpt-japan/
Company name	FPT Japan Holdings Co., Ltd. (subsidiary of FPT Software)
Employee	More than 1,750 people
Headquarters	6F - KDX Hamamatsucho Place, 1-7-6 Shibakoen, Minato-ku, Tokyo 105-0011
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