



The Mobile Robot Company

Knowledge Center — Network and Wi-Fi Requirements · 2026-08-04

<https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements>

Network and Wi-Fi Requirements

The J1600 does not require a network to do its core job. This page explains which functions run without any connectivity, which ones use it, and what to prepare if you want them.

Basic operation: no network required

The [standard out-of-box workflow](https://info.mobilerobot.com/products/j1600/how-it-works/) (<https://info.mobilerobot.com/products/j1600/how-it-works/>) — manual driving, [saving locations](https://info.mobilerobot.com/documentation/getting-started/saving-the-first-location/) (<https://info.mobilerobot.com/documentation/getting-started/saving-the-first-location/>), creating tasks on the touchscreen, and autonomous delivery — works without Wi-Fi and without any IT integration:

- No mandatory Wi-Fi for basic use.
- No mandatory warehouse-management system (WMS), fleet manager, or other systems integration.
- Mapping and navigation run onboard using [3D LiDAR SLAM](https://info.mobilerobot.com/products/j1600/navigation-and-obstacle-avoidance/) (<https://info.mobilerobot.com/products/j1600/navigation-and-obstacle-avoidance/>); no infrastructure or network dependency.

A single robot doing [teach-and-repeat](https://info.mobilerobot.com/documentation/installation/mapping-and-drop-point-setup/) (<https://info.mobilerobot.com/documentation/installation/mapping-and-drop-point-setup/>) transport can be deployed in a facility with no usable Wi-Fi at all.

Functions that use connectivity

Connectivity becomes relevant when you scale beyond the basic workflow:

Function	Why it needs a network
Come-to-me	The robot is called to a location from a mobile app or web interface.
VDA 5050	Fleet-level interoperability with a compatible fleet-management layer.
REST API	Integration with other software and equipment.
Fleet Manager	Orchestration of multiple robots.
Remote support	The support portal accepts tickets and device-log uploads.

[Come-to-me](https://info.mobilerobot.com/applications/scenarios/come-to-me/) (<https://info.mobilerobot.com/applications/scenarios/come-to-me/>), automatic charging coordination, [VDA 5050](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/) (<https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/>) fleet management, and API integrations are advanced automation functions; VDA 5050, the [REST API](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>), [Fleet Manager](https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/) (<https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/>), and advanced mission planning require the [Advanced software package](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>) — see [Software Updates](https://info.mobilerobot.com/documentation/service-maintenance/software-updates/) (<https://info.mobilerobot.com/documentation/service-maintenance/software-updates/>), and [dual mode](https://info.mobilerobot.com/products/j1600/dual-mode/) (<https://info.mobilerobot.com/products/j1600/dual-mode/>), for how the capability levels stack.

When Wi-Fi gets connected

If you want the robot online, Wi-Fi connection is part of Day 1 of the [commissioning package](https://info.mobilerobot.com/documentation/installation/deployment-checklist/) (<https://info.mobilerobot.com/documentation/installation/deployment-checklist/>) — and it is genuinely optional. You can also start network-free and add connectivity later when an application grows into [fleet or integration needs](https://info.mobilerobot.com/documentation/technical-integration/integration-overview/) (<https://info.mobilerobot.com/documentation/technical-integration/integration-overview/>).

Planning notes

- Decide before delivery whether any advanced function is in scope, so Wi-Fi coverage along the robot's routes can be checked in time.
- Getting help does not depend on the robot being online: the on-machine Help/Support menu shows a QR code through which technical requests can be sent directly. See [Diagnostics and Log Collection](https://info.mobilerobot.com/documentation/service-maintenance/diagnostics-and-log-collection/) (<https://info.mobilerobot.com/documentation/service-maintenance/diagnostics-and-log-collection/>).

- For detailed network specifications, ask your partner or hello@mobileroobot.com when [planning a fleet or integration project](https://info.mobileroobot.com/documentation/technical-integration/system-integrator-technical-guide/) (<https://info.mobileroobot.com/documentation/technical-integration/system-integrator-technical-guide/>).