

## proANT AGV System - WLAN Specifications

A reliable WLAN coverage is required for all components of an AGV system to communicate among each other.

It is the customer's duty to supply the WLAN. Therefore, the customer needs to select the equipment, design the access point layout and perform the system engineering to ensure that the area in which the AGV system operates is reliably and consistently connected with WLAN.

The WLAN needs to fulfill the following requirements:

- The basic service areas (BSA) provided by access points should overlap 10-15%
- Bordering access points should be set to different non-overlapping frequency channels.
- Signal/Noise distribution should not be lower than 25dB.
- Typical signal strength should be -70dBi or better.
- In areas of high AGV concentration (such as vehicle loading stations or parking areas), an equipment redundancy or service overlap of 50% is recommended. The signal strength in such locations should be -40dBi or better.
- A site survey for 802.11b/g/n should be conducted.

