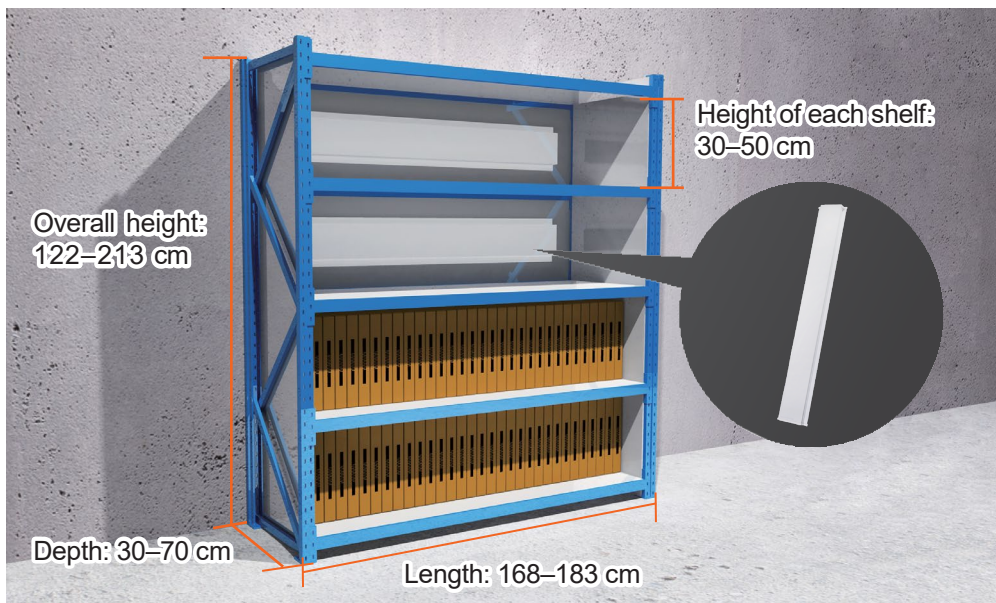


# Electronic Shelf Solution

Multi-antenna item tracking solution with layer-level accuracy

WNC's Electronic Shelf Solution is designed to detect and monitor items placed on it. Each shelf layer has a WAVE® antenna and RFID reader, and a maximum of 32 layers can be set up. The solution tracks items with layer-level accuracy, enabling highly efficient inventory checking.



## Key Features

### Versatility

WAVE® antennas can be embedded or installed in shelves, portals, in-transit systems and many other places, making them suitable for a wide range of applications in high-value asset management, secure storage, and real-time monitoring of critical components.

### Accuracy

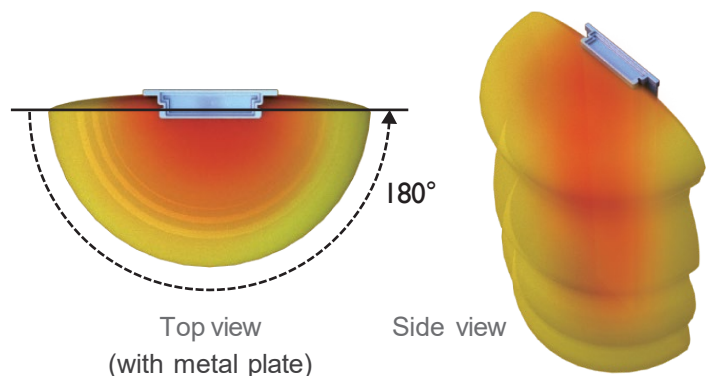
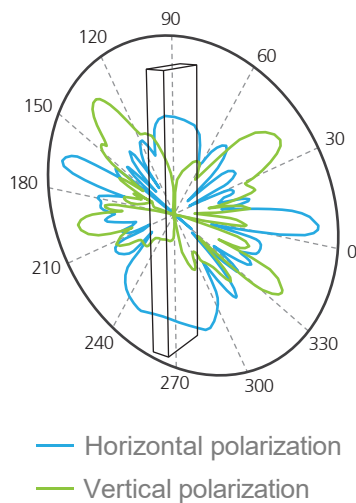
The WAVE® antennas in this solution have a patented multi-beam illumination pattern that delivers 99+% tag read rates within an optimal user-defined read zone while minimizing extraneous tag reads from outside the zone.

### Efficiency

This is a plug-and-play solution that can be easily installed in a wide variety of locations with minimal adjustment. It can also be deployed as a retrofit for existing fixtures, delivering a positive ROI within months.

## Antenna Radiation Pattern

WAVE® antennas are designed to uniformly illuminate a volume of space. When installed in pairs, the antennas complement each other and provide spatial, direction-of-arrival, and polarization diversities throughout the volume.



RFID Portal 3D Pattern



### Specifications

Model Name	XRBS-ES5
Antenna	
Dimensions	155 cm (L) × 23 cm (W) × 4.3 cm (H)
Weight	1.4 kg
Ambient Operating Temperature	−20 °C to 60 °C (−4 °F to 140 °F)
Frequency Range	902 MHz–928 MHz
Gain	4.5 dBi
Impedance	50 Ω
Polarization	Multi-linear
Maximum Input Power	10 W
Beamwidth	180° (with metal plate)
Connector	TNC reverse polarity
Shelf	
Suggested Dimensions	Length: 168–183 cm Depth: 30–70 cm Height: 122–213 cm (each shelf 30–50 cm)
Suggested Number of Shelves	≤ 4 shelves



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