

WAVE[®] Cube

High-performance asset tracking solution

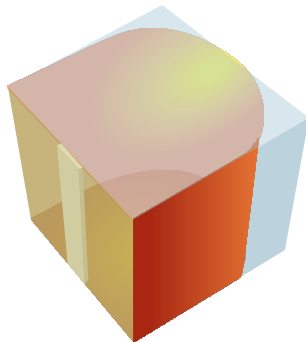
The WAVE[®] Cube is equipped with two WAVE[®] antennas, creating a uniform read zone that ensures read accuracy in high-density tag environments. With this solution, fast inventory checks and automated checkout are made possible, significantly enhancing efficiency in retail and warehousing environments.



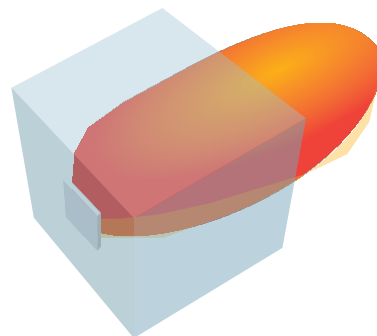
WAVE[®] Antenna

vs.

Patch Antenna



A WAVE[®] antenna creates a cylindrical radiation pattern like a fluorescent tube.



A patch antenna produces one main beam and behaves like a flashlight, radiating in a conical pattern well beyond the optimal RFID zone.

Key Features

Versatility

The WAVE[®] Cube can read large amounts of tags simultaneously and is easy to operate, making it suitable for applications such as self-checkout, warehouse inventory control, and asset management.

Accuracy

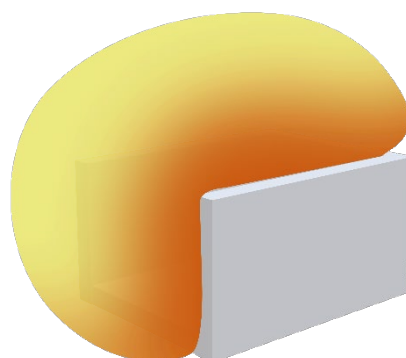
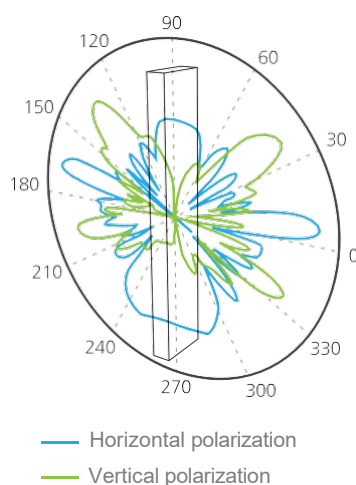
The WAVE[®] antennas in this solution have a patented multi-beam illumination pattern that delivers 99+% tag read rates within an optimal user-defined read zone while minimizing extraneous tag reads from outside the zone.

Efficiency

This is a plug-and-play system that can be easily installed in a wide variety of locations with minimal adjustment, helping businesses improve the efficiency and accuracy of inventory management and related operations.

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.



WAVE® Cube 3D Pattern



Specifications

Model Name	XRBS-M3-SC
Dimensions	Interior: 37.6 cm (L) × 52.2 cm (D) × 28.1 cm (H)
Main unit only	Exterior: 51.8 cm (L) × 58.8 cm (D) × 38.6 cm (H)
Optional right-side distribution box	Exterior: 63.8 cm (L) × 58.8 cm (D) × 38.6 cm (H)
Optional rear distribution box	Exterior: 51.8 cm (L) × 70.8 cm (D) × 38.6 cm (H)
Housing Material	Acrylic and SPCC
Weight (Main unit only)	15.5 kg
Antenna Ports	2
Ambient Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Frequency Range	902 MHz–928 MHz
Gain	5.5 dBi
Impedance	50 Ω
Polarization	Multi-linear
Maximum Input Power	10 W
Beamwidth	360°
Connector	TNC reverse polarity



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