

RFID Race Timing Mat Antenna

Model: WS-RAM2-U925

(Designed for Running Events / 902~928 MHz / Modular Length & Connector System)

This antenna is specifically designed for RFID timing systems used in marathons, road races, and similar sports events. It offers excellent read performance and flexible on-site deployment.

With high gain and circular polarization, it delivers strong anti-interference capability and signal stability. The modular design enables easy assembly and integration, featuring unit-based connectors per meter for flexible configuration and convenient installation.

Its flat-profile structure resists wind, rain, and snow, and provides enhanced concealment—ideal for venues requiring aesthetic appeal or low visibility. Suitable for a wide range of large-scale outdoor events, including RFID timing in road race applications and wireless data transmission in IoT environments.

Key Specifications

Item	Specification
Frequency Range	902~928 MHz
Gain	8.5 dBi (±0.5)
H/V Beamwidth	65° ±5° / 65° ±5°
VSWR	≤2.0
Input Impedance	50 Ω
Polarization	Circular Polarization
Axial Ratio	≤3 dB
Max Power	50 W
Lightning Protection	DC Grounding

Structural Characteristics

Item	Specification
Connector Type	SMA or TNC
Cable Exit	Side Feed
Dimensions (per unit)	1000 × 333 × 22 mm
Weight	4 kg
Housing Material	PC+ABS
Color	Blue
Ingress Protection	IP67
Operating Temperature	-40°C ~ +55°C

Application

- Ideal for use at start/finish lines and race corridors in marathons, road runs, and other athletic events. Supports high-speed RFID chip detection and accurate timing.
- Modular unit design provides flexible cabling, suitable for both temporary setups and permanent installations.
- Waterproof and impact-resistant construction ensures reliable operation under diverse weather conditions and outdoor ground environments.