



The AN100 is a linear polarised whip antenna that, when connected to a Wavetrend® reader, offers superior control over where Wavetrend® tags can be detected by the reader.

Operational Capabilities

The AN100 can be used with both L-Series and W-Series models of Wavetrend® RX201, RX900 and RX1000 readers.

It is strongly recommended that the services of a properly trained engineer from a Wavetrend Accredited Partner or Wavetrend Professional Services are employed to determine the best location for the reader and the best antenna to be used to achieve the desired read range.

**Read ranges are affected by environmental conditions and site configurations and may not match those stated in this sheet. Read ranges will generally be greater outdoors than indoors.*

L-RX201 | L-RX900 | L-RX1000

43m (radius)

*Typical Read Ranges Offered by AN100 with Respective Wavetrend Readers**

Reception Characteristics

The AN100's horizontal and vertical polar plots (radiation patterns) shown to the right indicate how the antenna's tag detection range is shaped around the antenna, with a clear increase in forward read range and minimisation of read range behind.

Certification



Medium Range Whip

- 433MHz linear polarised antenna
- Allows more control over where tags are read
- Detects tags in any orientation relative to the antenna with minimal impact on RSSI
- Designed for both indoor and outdoor use
- Provides ultra-long range where required
- Minimises read range to rear of antenna

Specifications

Environmental	
Operating temperature	: -40°C to +70°C
Physical	
Size	: 160 x 15 mm tapered to 6 mm diameter
Weight	: 30 g (approx)
Colour	: Black
Finish	: UV resistant black rubber coating
Specification	: Conforms to ETS 300 019
Electrical	
Gain at connector	: - 3 dBi (with reference to a 1/8 wave ground plane)
Connector type	: Male BNC
VSWR	: < 1.5:1
Impedance	: 50 Ohms
Polarisation	: Linear
Max Power	: 100 Watt
Frequency Band	: 400 MHz to 450 MHz
Antenna Type	: Quarter wave whip

IP Information

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Ordering & Further Information

For more information on the AN100 Whip Antenna or for information on how to purchase it please email Wavetrend's Sales team: sales@wavetrend.net

For more information on Wavetrend, our active RFID products & Professional Services and on joining our Accredited Partner program, visit our website: www.wavetrend.net