

U-Antenna Tracker Specification

version 1.0 2018/04/26

Mechanical (Box)

Dimensions (WxHxL)	75 x 105 x 170 mm ¹
Weight	2 kg
Connectors3 Amphenol I	MIL-DTL-26482 Serie I, PT

Mechanical (Rotator)

Dimensions (DxH)	186 x 263 mm
Weight	3.5 kg
Rotation Torque	600 kgf-cm
Braking Torque	3000 kgf-cm
Rotation Range	450 degrees
360º Rotation Time	63 seconds at 50 Hz
	51 seconds at 60 Hz
Rotational Speed	0.1 rad/s
Maximum Payload weight	10 kg (pole-mounted) ^{2 3}
K	= 100 (tower-mounted) 45
Maximum Continuous Duty	3 minutes

Electrical (System)

Supply Voltage	220-240 VAC, 50-60 Hz
Power Consumption	1.2 W (typ)
Maximum Temperature Range	30 °C to +85°C
Recomended Temperature Rating	g+10 °C to +60°C

Electrical (Rotator)

Power supply	11-24 VAC
Power consumption (in movement)	25 W
Operating Temperature Range20	0ºC to + 80ºC

Interface with Peripherals

TTL Serial Interface	Comms with U-Ground
External ADC channel. 1 channe	el to read analog feedback
from rotator	

Hardware Architecture

Technology	Based in Altera FPGA technology
Access to peripherals	Dedicated Hardware
CPU	NIOS II soft-core at 50 MHz

Excluding connectors in front panel.

To know how a pole-mounted antenna looks, please read U-Antenna Tracker User Manual, Mechanical Structure section.

Although the rotator is capable of holding such weight, Airelectronics provides a tripod within the Installation Kit which sets a limitation of 5 kg for pole-mounted antennas installed onto the rotator. A stronger tripod is provided spearately.

provided separately. To know how to calculate "K" coefficient, please, read U-Antenna Tracker User

Manual, Mechanical Structure section.

Although the rotator is capable of holding such weight, Airelectronics provides a tripod within the Installation Kit which sets a limitation of K = 50 units for tower-mounted antennas installed onto the rotator. A stronger tripod is provided separately