

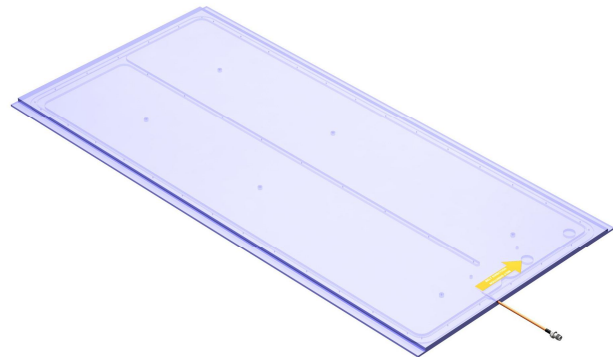
# SlimLine A6013

## CIRCULAR POLARISED UNDERBELT ANTENNA

### Overview

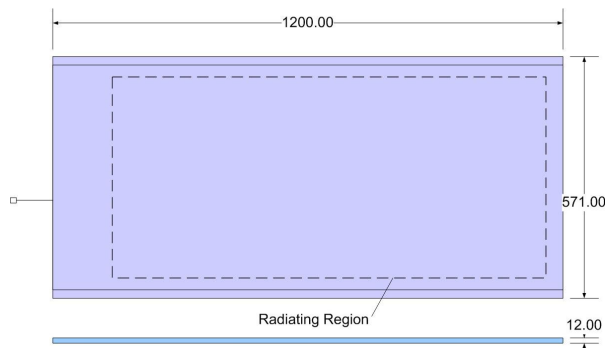
The SlimLine A6013 is a circular-polarised flat panel antenna array encased in an ultra-low-profile UHMWPE (Ultra-High Molecular Weight Polyethylene) radome. It is especially suited to conveyor-belt-based UHF RFID applications, such as airport baggage handling.

At just 12 mm high, the A6013 is designed for easy installation. It can be quickly and easily installed on the bed of the conveyor, directly beneath the moving belt. The UHMWPE<sup>7</sup> radome eliminates wear issues.



### Mechanical/Environmental Specifications

- Radome material: 3mm UHMWPE
- IP rating: IP54
- Dimensions: L: 1200mm W: 571mm H: 12mm
- Radiating area dimensions: L: 1100mm W: 485mm (approx)
- RF connector: N-Type Plug on 300 mm lead
- Electrostatic protection: yes (dc short)
- Operation and storage temperatures: 0°C to + 50°C, - 30°C to + 60°C



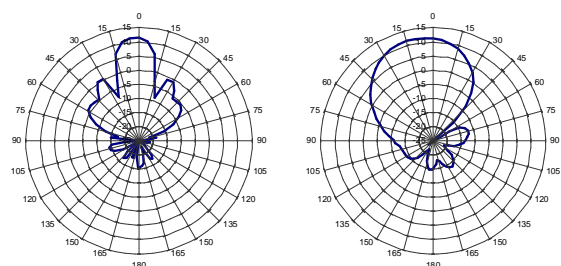
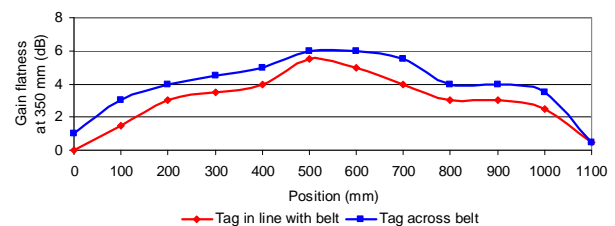
### Ordering

Please quote both product code and part number.

Product Code	Band	Part No.
A6013	ETSI	70950
A6013	FCC	70951

### Electrical Specifications

- Frequency bands ETSI 864 MHz . 869 MHz and FCC 902 MHz . 928 MHz
- Polarisation: circular polarized
- Return loss: VSWR < 2:1
- Front to back: > 22 dB
- Read zone above belt: up to 900 mm
- Read zone across belt: up to 1200 mm
- Peak farfield gain: 11 dBi
- Underbelt antenna nearfield performance . see below
- Impedance 50 Ω



XZ plane                      YZ plane  
Circular polarised E-field elevation and azimuth patterns

### Contact details:

P: +64 4 569 1500  
F: +64 4 569 1400  
E: [info@times-7.com](mailto:info@times-7.com)

69 Gracefield Road  
Lower Hutt 5010  
New Zealand