

**ABOUT TIMES-7**

We are a high-tech company specializing in the design and manufacture of RAIN (UHF) RFID antennas. Founded in 2006, Times-7 has developed the largest portfolio of fixed RAIN RFID reader antennas. Based in Lower Hutt, New Zealand we export all over the world through an authorized network.

Times-7 antennas are famous for their quality and performance.

In addition to our world-class products and in-depth expertise, our customers appreciate Times-7's customer service and technical support. We are responsive in supporting a large global customer base and ensuring the success of our customer's implementations.

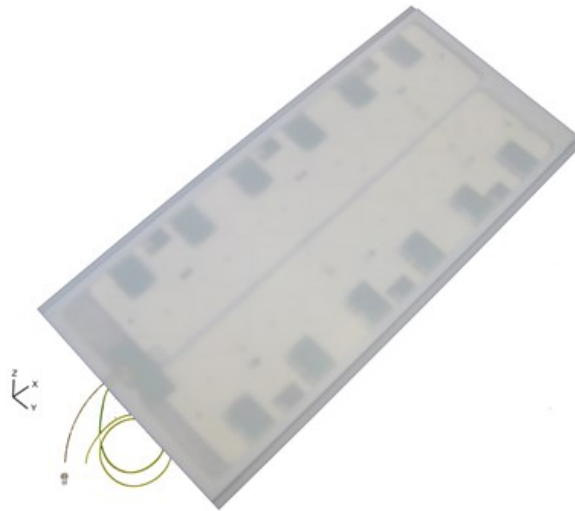
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The SlimLine A6011

- Ultra-low profile circular polarised antenna
- Especially suited for airport conveyor belts
- Industry leading accuracy rates
- Just 12 mm / 0.5 in. thick
- Typical applications:  
Airport baggage handling systems  
& any conveyor belt-based application

Part of the SlimLine range of airport antennas, the A6011 is a flat panel antenna array especially suited to conveyor belt-based UHF RFID applications. Encased in an ultra-low-profile UHMWPE (Ultra-High Molecular Weight Polyethylene) radome, the A6011 is designed for continuous 24x7 operation in environments where downtime is not an option.

At just 12 mm / 0.5 in. thick, and designed for quick and easy installation, the A6011 is the ideal choice for airport baggage handling systems, or any conveyor belt-based application.

The A6011 under belt antenna is now available in three different sizes. For more details, please refer to the physical specifications.

**Ordering Information**

*Ordering Information (please quote product code, band / cable type & part no.)*

*Antenna Product Code	Band	Part No.
A6011 (1200 mm)	ETSI 864-868 MHz	70730
	FCC 902-928 MHz	70731
A6011 (1000 mm)	ETSI 864-868 MHz	71892
	FCC 902-928 MHz	71919
A6011 (800 mm)	ETSI 864-868 MHz	71891
	FCC 902-928 MHz	71906
Cable Accessories	Cable Type	Part No.
Cable 2 m, SMA to RPTNC	T7 195 / 240 / 400	71436 / 71782 / 72042
Cable 4 m, SMA to RPTNC	T7 240 / 400	71784 / 72043
Cable 6 m, SMA to RPTNC	T7 240 / 400	71904 / 72044
Cable 8 m, SMA to RPTNC	T7 240 / 400	71788 / 72045

\*Built in New Zealand. ROHS & CE compliant.

View the Times-7 Cable Accessory datasheet [here](#)

## Specifications

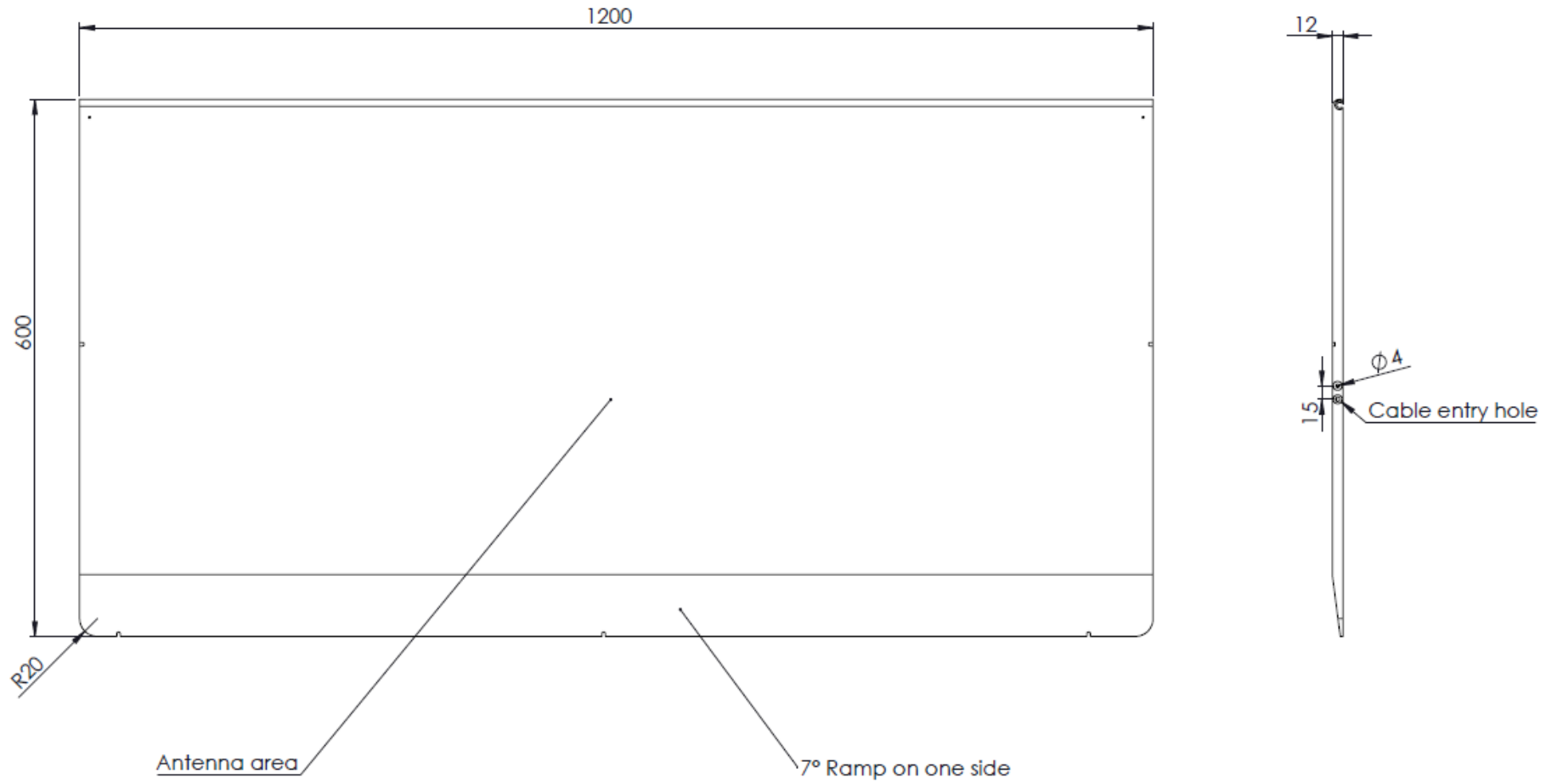
### Physical / Environmental Specifications

	A6011 (1200mm)	A6011 (1000mm)	A6011 (800mm)
Dimensions: Length (x) x Width (y) x Depth (z)	1200 mm x 600 mm x 12 mm 47.24" x 23.62" x 0.47"	1000 mm x 800 mm x 12 mm 39.37" x 31.49" x 0.47"	800 mm x 800 mm x 12 mm 31.49" x 31.49" x 0.47"
Unit Boxed Dimension:	1370 mm x 690 mm x 40 mm 53.93" x 27.16" x 1.57"	Without box – Wrapped with protection	Without box – Wrapped with protection
Weight:	Net: 9 kg / 19.84 lbs. Gross: 9.5 kg / 20.94 lbs.	Net: 8.5 kg / 18.7 lbs. Gross: 9kg / 19.84 lbs.	Net: 8.0 kg/18.0 lbs. Gross: 8.5kg / 18.79 lbs.
Radome Material:	UHMWPE (Ultra-High Molecular Weight Polyethylene)		
Environmental Rating:	IP54		
Operating / Storage Temperature:	0° to +50°C / -30° to +60°C +32F° to +122°F / -22° to +140°F		
Mounting:	Affixed directly onto conveyor frame (under conveyor belt)		
Connector type / position:	SMA female side fly lead (300 mm / 11.8 in.)		

## Electrical Specifications

	A6011 (1200mm)	A6011 (1000mm)	A6011 (800mm)
Frequency Range:	865 – 868 MHz / 902-928 MHz		
Polarization:	RHCP (Right Hand Circular Polarised)		
Far-field Gain:	11dBic	10 dBic	10 dBic
Far-field 3dB beamwidth: *	60Deg / 22Deg	70 Deg / 25 Deg	70 Deg / 25 Deg
Axial Ratio	2dB typical		
VSWR	2 typical	1.8 typical	1.8 typical
Front to back ratio:	> -22dB	> -20dB	> -20dB
Read zone above belt:	≤ 900 mm		
Read zone across belt:	≤ 1200 mm	≤ 1000 mm	≤ 180 mm
Nominal Impedance:	50 Ω		
Anti-static protection:	Yes (Earthing cable and DC grounded)		
Maximum Input Power:	3 W		
Antenna detection	10 K Ω resistance		

# Mechanical Drawing for the A6011 – (1200mm)



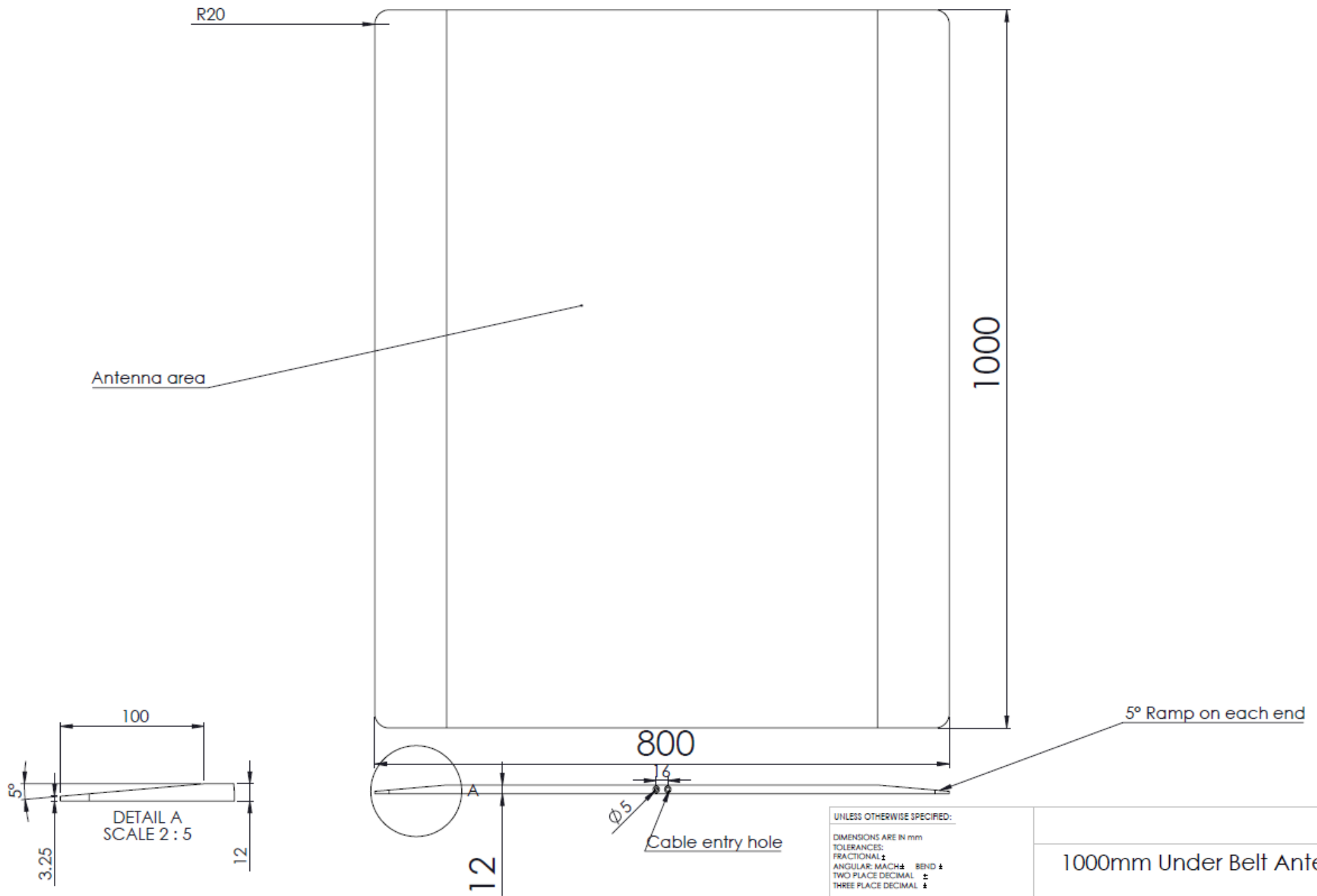
UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN mm  
 TOLERANCES:  
 FRACTIONAL ±  
 ANGULAR: MACH ± BEND ±  
 TWO PLACE DECIMAL ±  
 THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC  
 TOLERANCING PER:  
 MATERIAL  
 FINISH

DO NOT SCALE DRAWING

1200mm Under Belt Antenna		
SIZE <b>A3</b>	DWG. NO.	REV <b>B</b>
SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

# Mechanical Drawing for the A6011 – (1000mm)



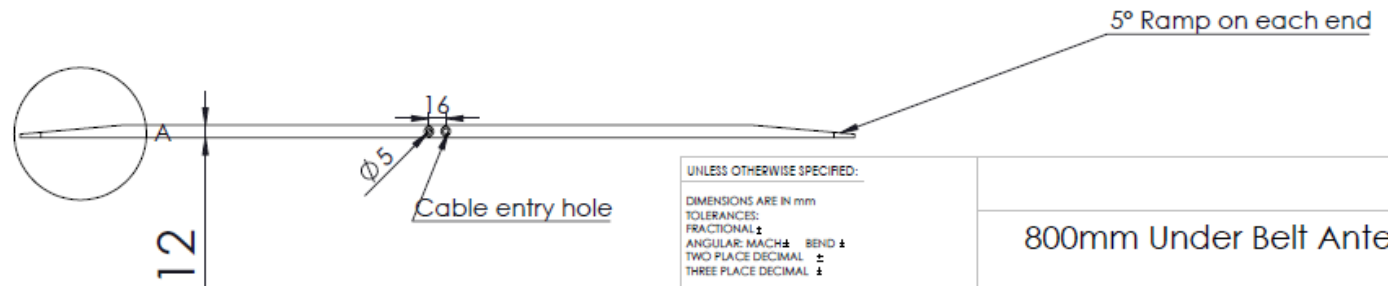
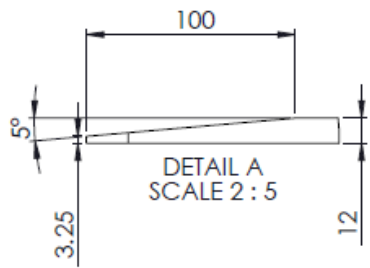
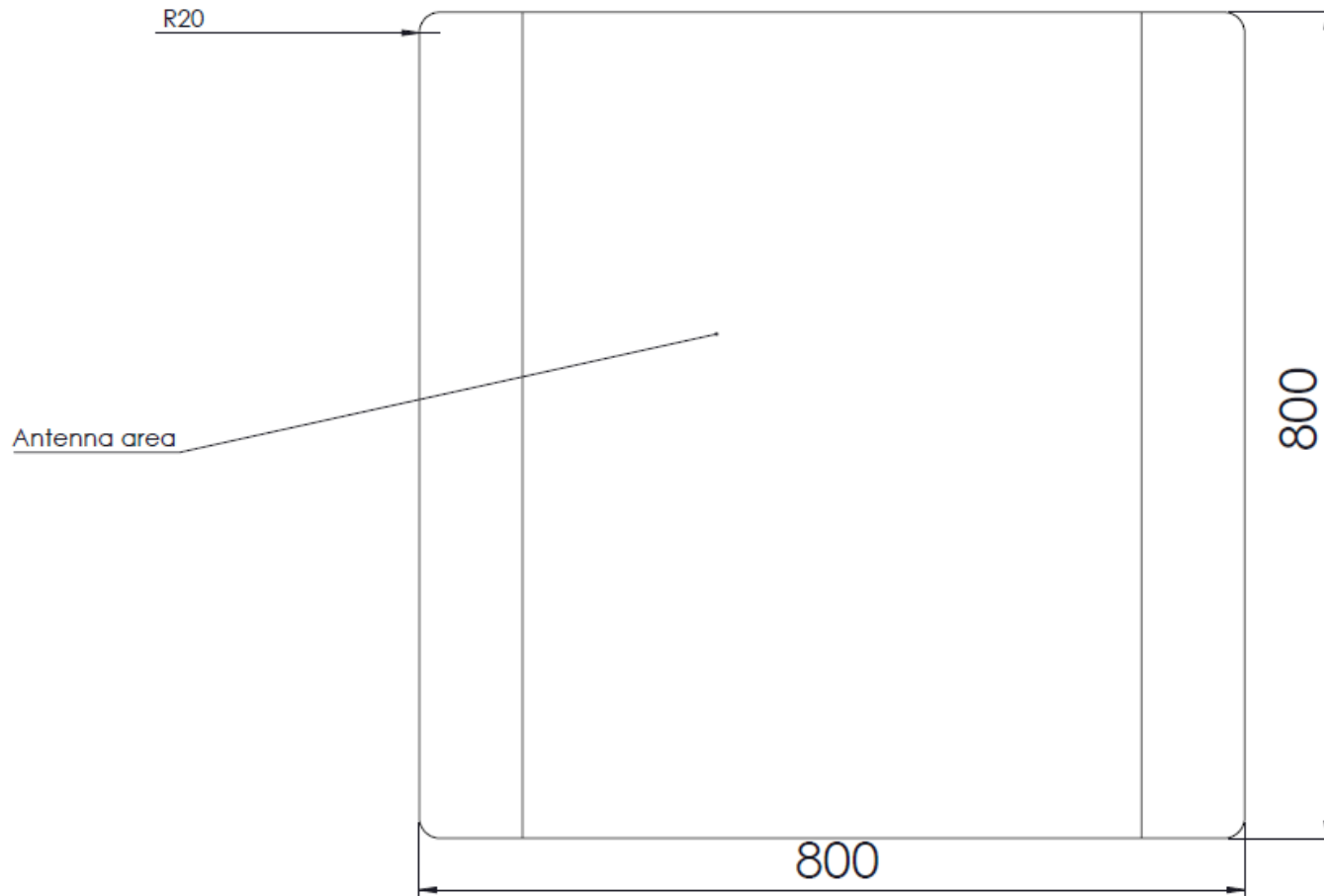
UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN mm  
 TOLERANCES:  
 FRACTIONAL ±  
 ANGULAR: MACH ± BEND ±  
 TWO PLACE DECIMAL ±  
 THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:  
 MATERIAL  
 FINISH

DO NOT SCALE DRAWING

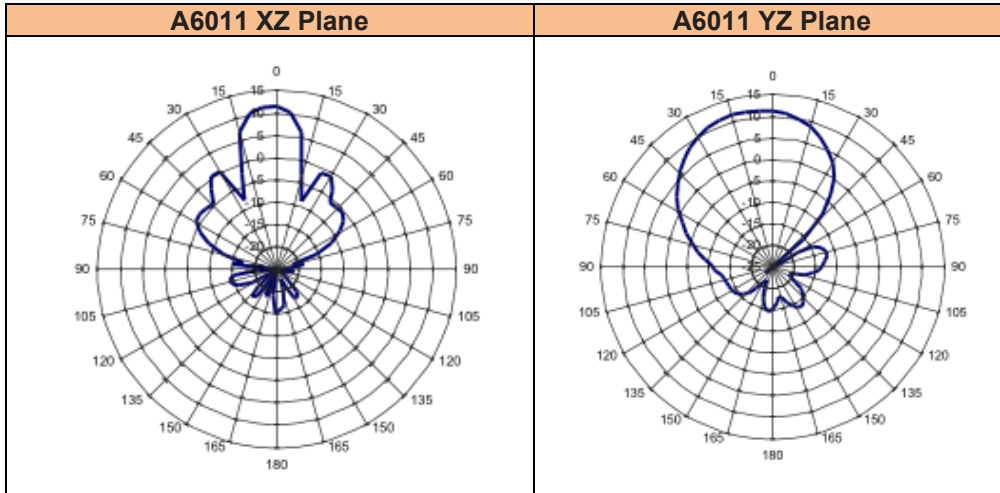
1000mm Under Belt Antenna		
SIZE	DWG. NO.	REV
<b>A3</b>		<b>B</b>
SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

Mechanical Drawing for the A6011 – (800mm)



UNLESS OTHERWISE SPECIFIED:		800mm Under Belt Antenna		
DIMENSIONS ARE IN mm TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±				
INTERPRET GEOMETRIC TOLERANCING PER:		SIZE	DWG. NO.	REV
MATERIAL		<b>A3</b>		<b>B</b>
FINISH		SCALE: 1:5	WEIGHT:	SHEET 1 OF 1
DO NOT SCALE DRAWING				

## Radiation Pattern



### OUR GLOBAL NETWORK

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## Installation Instructions

- Ensure that only finger tightness is used for the SMA connector. Use of tools to tighten the connector will apply excessive force and will damage the connector.
- Avoid any load or bending force from the cable on the connector.

## Applications

### Airport Portal:

The A6011 Under belt Antenna combined with the A6020 Conveyor Portal Antenna is perfect for airport baggage handling and provides industry leading accuracy rates. It can easily be installed into existing airport infrastructure.

For more information, please contact us at [sales@times-7.com](mailto:sales@times-7.com).



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Datasheet v4.0