ANTENNAS™ CIRCULAR POLARISED UNDERBELT ANTENNA
SlimLine – A6011

ABOUT TIMES-7

Pushing the boundaries of RFID technology worldwide Times-7 are leaders in RFID antenna design and manufacture. Our patented award winning UHF antennas meet the needs of virtually any industry application; providing customers with fast accurate tracking of products, assets & people; empowering organizations to transform processes & reduce costs.

Our SlimLine range of antennas is unique in the RFID industry; offering high levels of performance & durability in an aesthetically superior form. Proven in a diverse & growing range of markets, applications include retail & customer interaction, conference & people tracking, race timing, baggage handling, and logistic & supply chain asset management.

Times-7
29 Railway Avenue
Lower Hutt 5010
New Zealand

NEW ZEALAND
P: +64 4 974 6566

USA/CANADA
P: +1 408 769 5025

E: info@times-7.com

www.times-7.com

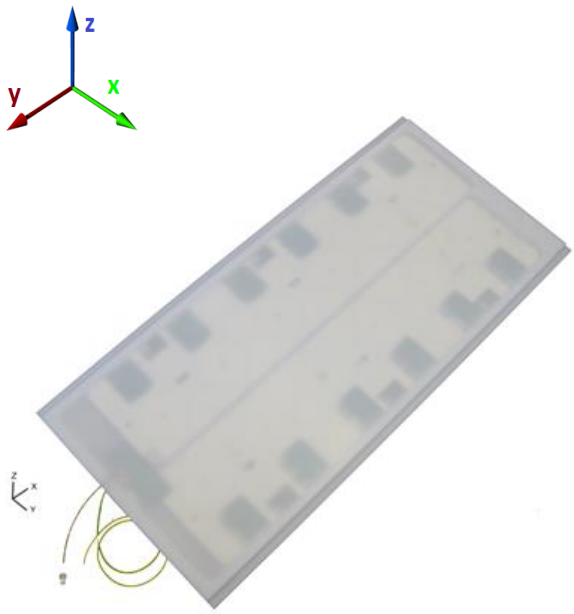
Ultra-low profile circular polarised antenna

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



The SlimLine A6011

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 underbelt antenna is now available in three different sizes. For more details, please refer to the physical specifications.

TIMES-7® INTELLIGENT TRACKING | SMART TECHNOLOGY

T-7 ANTENNAS™

CIRCULAR POLARISED UNDERBELT ANTENNA
SlimLine – A6011

Specifications

Physical / Environmental Specifications

	A6011 (1200mm)	A6011 (1000mm)	A6011 (800mm)
Dimensions (L x W x D):	1200 mm x 600 mm x 12 mm 48 in. x 24 in. x 0.5 in.	1000 mm x 800 mm x 12 mm 39 in. x 31 in. x 0.5 in.	800 mm x 800 mm x 12 mm 31 in. x 31 in. x 0.5 in.
Weight:	7 kg / 15.4 lbs.	8.5 kg / 18.7 lbs	8.0 kg / 18.0 lbs
Radome Material:	3 mm 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:	Circular		
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, static dissipative radome)		
Maximum Input Power:	3 W		
Antenna detection	10 K Ω resistance		

CIRCULAR POLARISED UNDERBELT ANTENNA
SlimLine – A6011

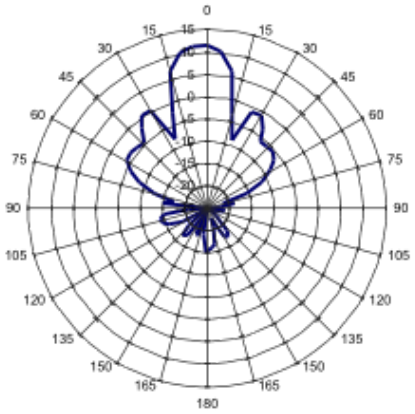
Ordering Information

(please quote both product code & part no.)

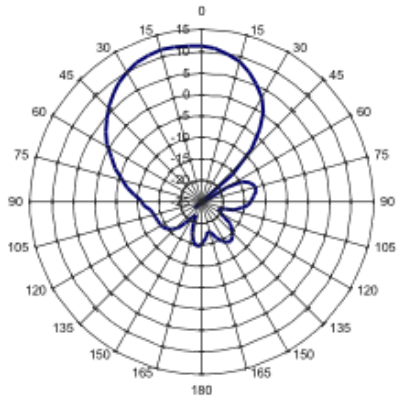
Product Code	Band	Part No.
A6011 (1200 mm)	ETSI 864-868 MHz	70730
	FCC 902-928 MHz	70731
A6011 (1000 mm)	ETSI 864-868 MHz	71892
	FCC 902-928 MHz	71907
A6011 (800 mm)	ETSI 864-868 MHz	71891
	FCC 902-928 MHz	71906
Cable Accessories	**Cable Type**	**Part No.**
Cable 2 m, SMA to RPTNC	LMR 195 / 240 / 400	71436 / 71782 / 72042
Cable 4 m, SMA to RPTNC	LMR 240 / 400	71784 / 72043
Cable 6 m, SMA to RPTNC	LMR 240 / 400	71904 / 72044
Cable 8 m, SMA to RPTNC	LMR 240 / 400	71788 / 72045

Electric Field Radiation Patterns

A6011 (1200 mm)

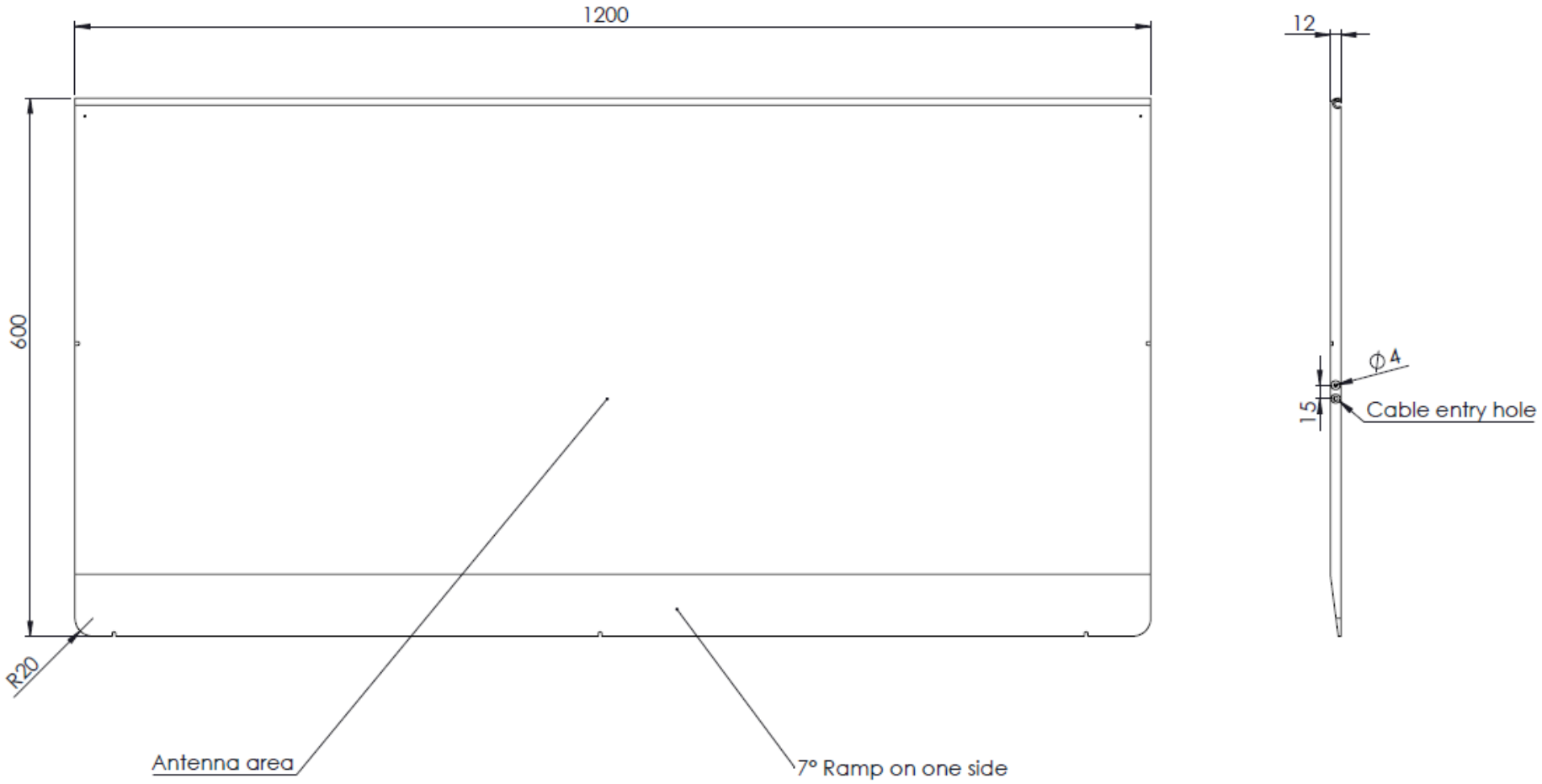


XZ-plane

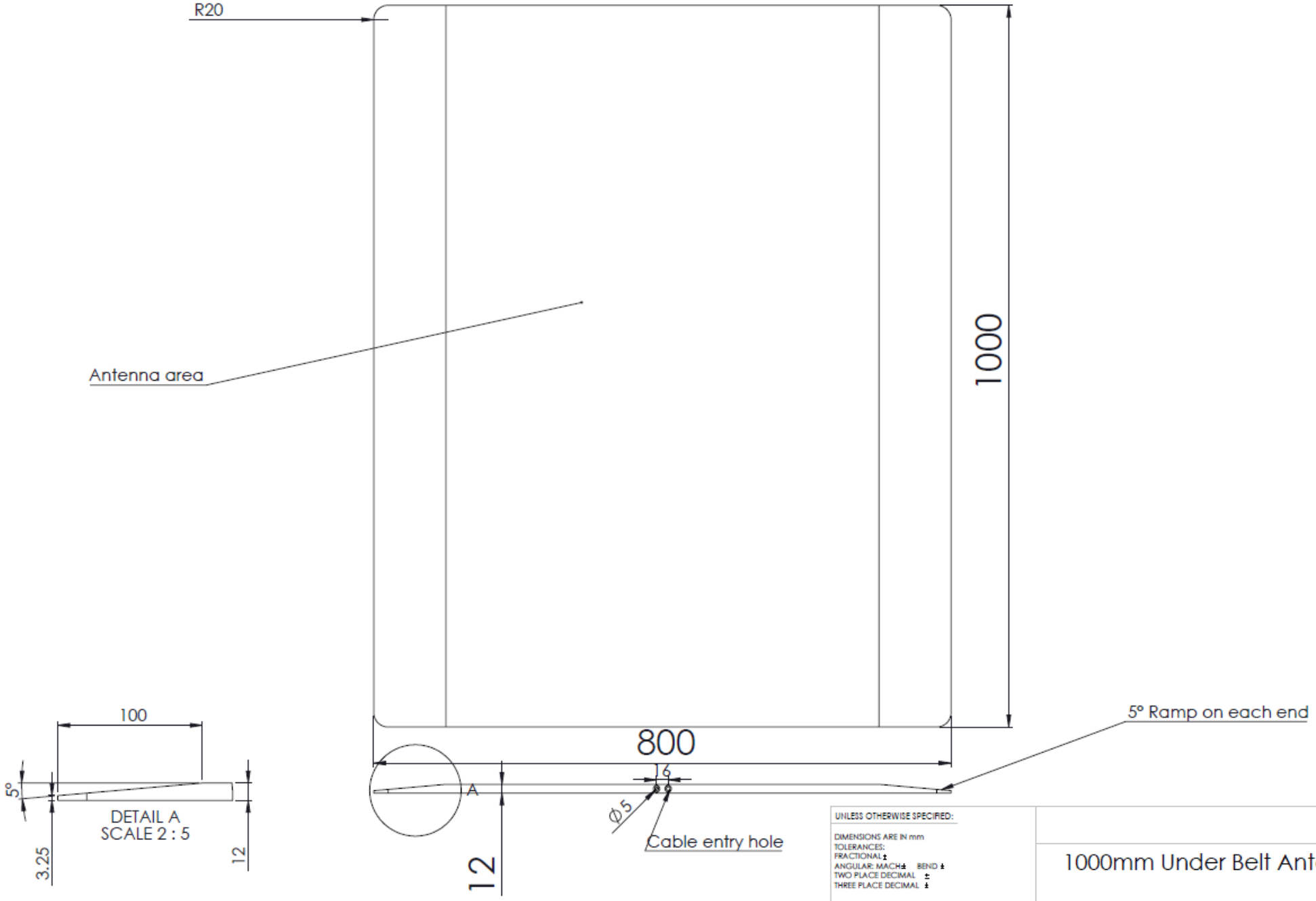


YZ-plane

CIRCULAR POLARISED UNDERBELT ANTENNA
SlimLine – A6011



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 A3	DWG. NO.	REV B
	SCALE: 1:5	WEIGHT:	SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED:

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

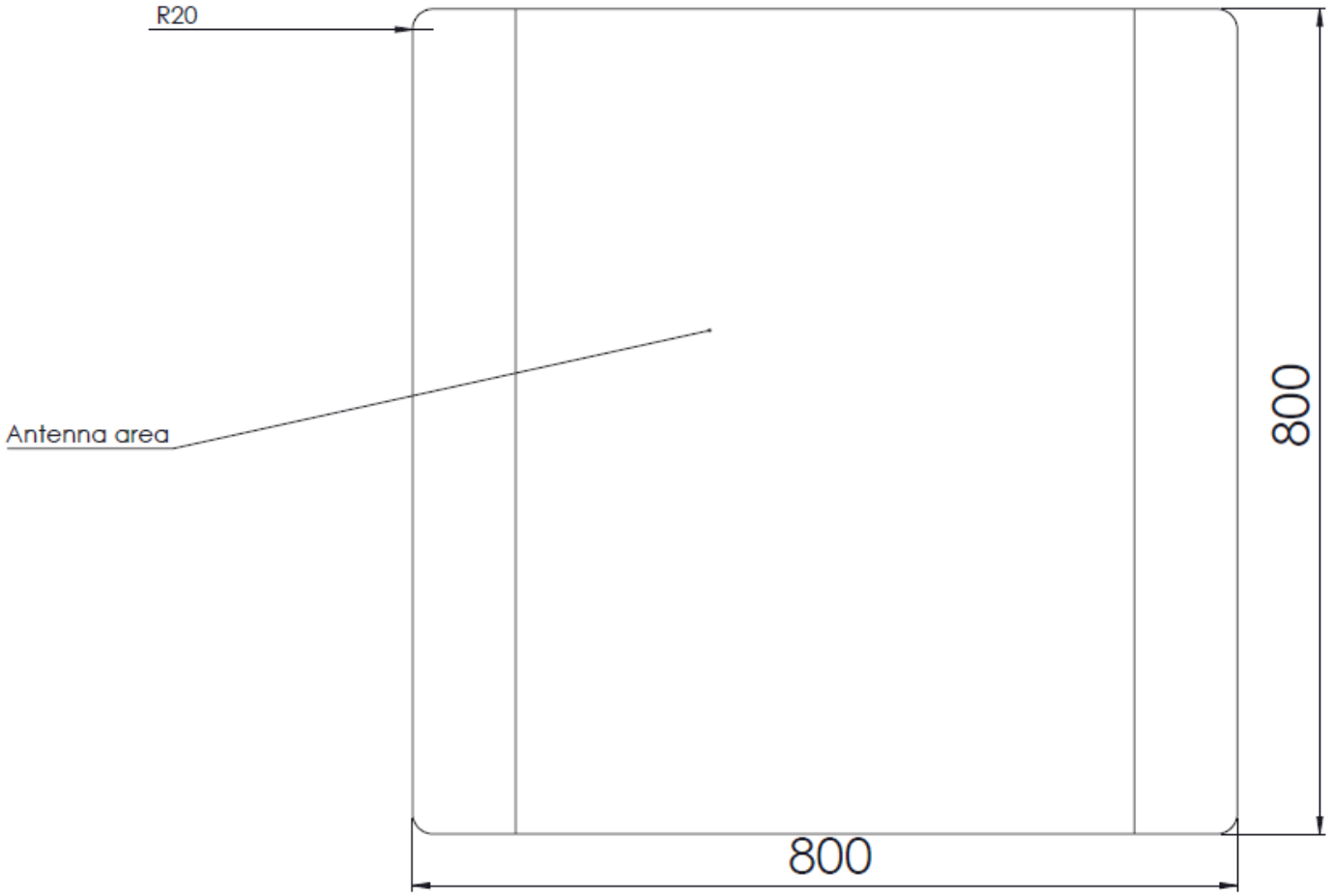
DO NOT SCALE DRAWING

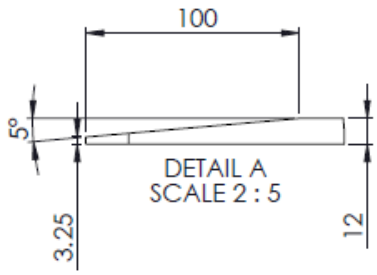
1000mm Under Belt Antenna

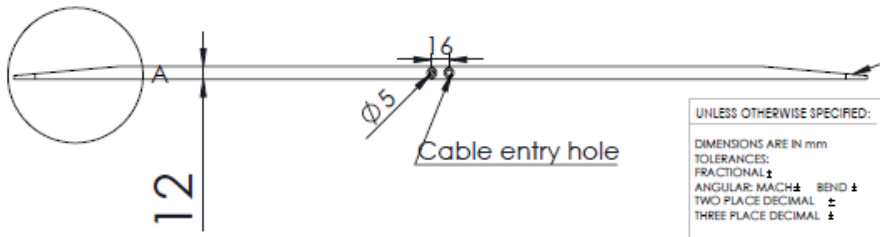
SIZE	DWG. NO.	REV
A3		B

SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

TIMES-7
INTELLIGENT TRACKING | SMART TECHNOLOGY







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

800mm Under Belt Antenna

SIZE	DWG. NO.	REV
A3		B
SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

TIMES-7
INTELLIGENT TRACKING | SMART TECHNOLOGY

UHF ANTENNA
SlimLine - A8065 Combo

Applications

Airport Portal:

The A6011 Underbelt 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 info@times-7.com.

OUR GLOBAL NETWORK

Constantly increasing market reach and influence in the global RFID industry, Times-7's international support spans The Americas, Europe, and Asia Pacific regions through our distributor, authorized reseller and integrated solutions provider network.

Times-7 Research Ltd
29 Railway Avenue
Lower Hutt 5010
New Zealand

NEW ZEALAND
P: +64 4 974 6566

USA/CANADA
P: +1 408 769 5025

E: info@times-7.com

www.times-7.com

Datasheet v1.1