

ABOUT TIMES-7

We are a high-tech company specializing in the design and manufacture of RAIN (UHF) RFID antennas.

Our journey began in 2006, when Times-7 was founded. Since then, we have developed the largest portfolio of fixed RAIN RFID reader antennas, which are famous for their quality and performance.

We are based in Lower Hutt, New Zealand, but our reach extends worldwide as we export our products through our authorized partner network.

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 A4030C Circularly Polarized Antenna

As part of our versatile SlimLine™ antenna range, the A4030C Circularly Polarized Antenna stands out as a high-performance UHF antenna, perfectly suited for a diverse array of RFID applications.

Boasting an impressive read range of up to 6m (19') and compact dimensions at just 280mm (11") square, the A4030C is the epitome of versatility and efficiency. Its rear connector ensures a seamless installation, with no visible cables for a clean and discreet setup.

Order Information

Note: Please quote product code, band / cable type & part number

*Antenna Product Code	Band	Part No.
A4030C	ETSI 865-868 MHz	71269
A4030C	FCC 902-928 MHz	71270
Mounting Accessory Product Code		Part No.
Mounting Plate (A4030C/L)	ETSI and FCC	72094
Cable Accessories Product Code	Cable Type	Part No.
Cable 2m, SMA to RPTNC	T7 195 / 240 / 400	71436 / 71782 / 72042
Cable 4m, SMA to RPTNC	T7 240 / 400	71784 / 72043
Cable 6m, SMA to RPTNC	T7 240 / 400	71904 / 72044
Cable 8m, 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

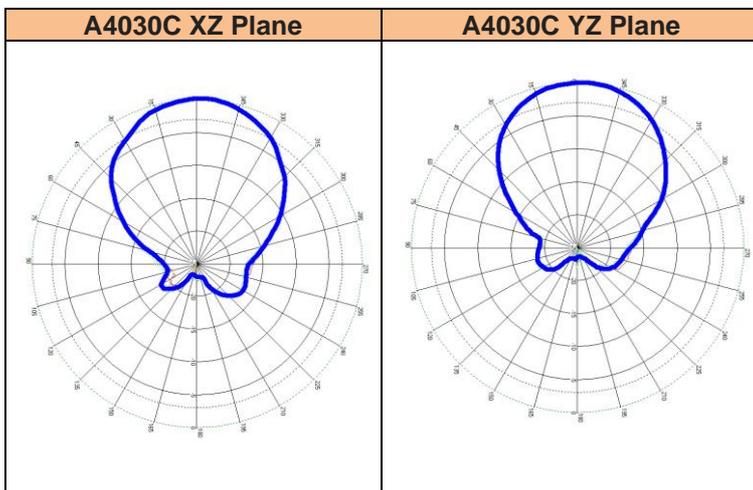
Dimensions Unboxed: Length (x) x Width (y) x Depth (z)	280 x 280 x 12.2mm 11.02 x 11.02 x 0.48"
Boxed Unit Dimensions: (L x W x D)	335 x 315 x 35 mm 13.19 x 12.40 x 1.38"
Weight:	Net: 0.74kg / 1.63lbs. Gross: 0.94kg / 2.07lbs.
Radome Material:	Fire retardant ABS
Environmental Rating:	IP65
Operating / Storage Temperature:	-20° to +55°C / -30° to +65°C -4° to +131°F / -22° to +149°F
Connector Type / Position:	SMA female / Rear connector

Electrical Specifications

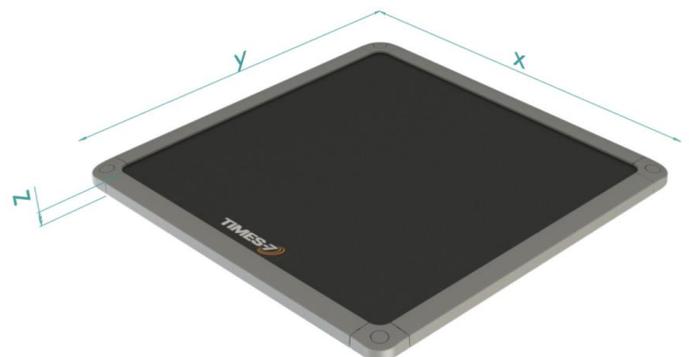
Electrical Specifications

Frequency Range:	865-868 MHz / 902-928 MHz
Polarisation:	RHCP (Right Hand Circular Polarisation)
Far-field Gain:	6.5dBiC typical
Far-field 3 dB beamwidth: *	60° in both planes
VSWR	1.4 typical
Front to back ratio:	26dB
Axial Ratio:	2dB typical
Nominal impedance:	50Ω
Anti-static protection:	Yes, DC grounded
Antenna detection	10K Ω resistance
Maximum Input Power:	3W

Radiation Pattern



Azimuth Planes



Applications

Inventory Management

The A4030C is a rugged antenna meaning it is ideal for asset tracking and encoding RFID tags. This antenna has a typical read range distance of 6m allowing manufacturers, wholesalers and retailers, for example, to track their inventory throughout the supply chain, from the warehouse shelves all the way to the sales floor.



Logistics & Supply Chain

The A4030C antenna can be used to accurately count, correct, and track all individual items and cartons across the supply chain. This starts in the factory where items are tagged at source, goes on to the distribution center where orders are sorted and finally sent out to stores.



Retail / POS self service

The A4030C can easily be deployed in space constrained environments such as retail. With its superb aesthetics and compact design, the A4030C antenna blends well into the retail back drop.



Mounting Information

Mounting Bracket

The Times-7 Mounting Plate for the A4030C is designed to support VESA brackets (100 x 100mm) with installation simplicity in mind. Our mounting brackets cater for both interior and exterior mounting requirements under all environmental conditions.

For exact dimensions, please refer to the mechanical drawings on page 6. For instructions on how to attach the bracket to the antenna please click [here](#).



Installation Instructions

The recessed corner mounting holes of the A4030C supports 100 x 100mm VESA spaced mounting brackets as shown above. The innovative slim design of the A4030C, equipped with an SMA connector, allows for totally flush mounting using the corner holes.

Caution:

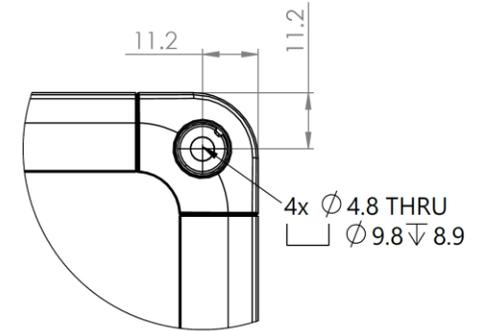
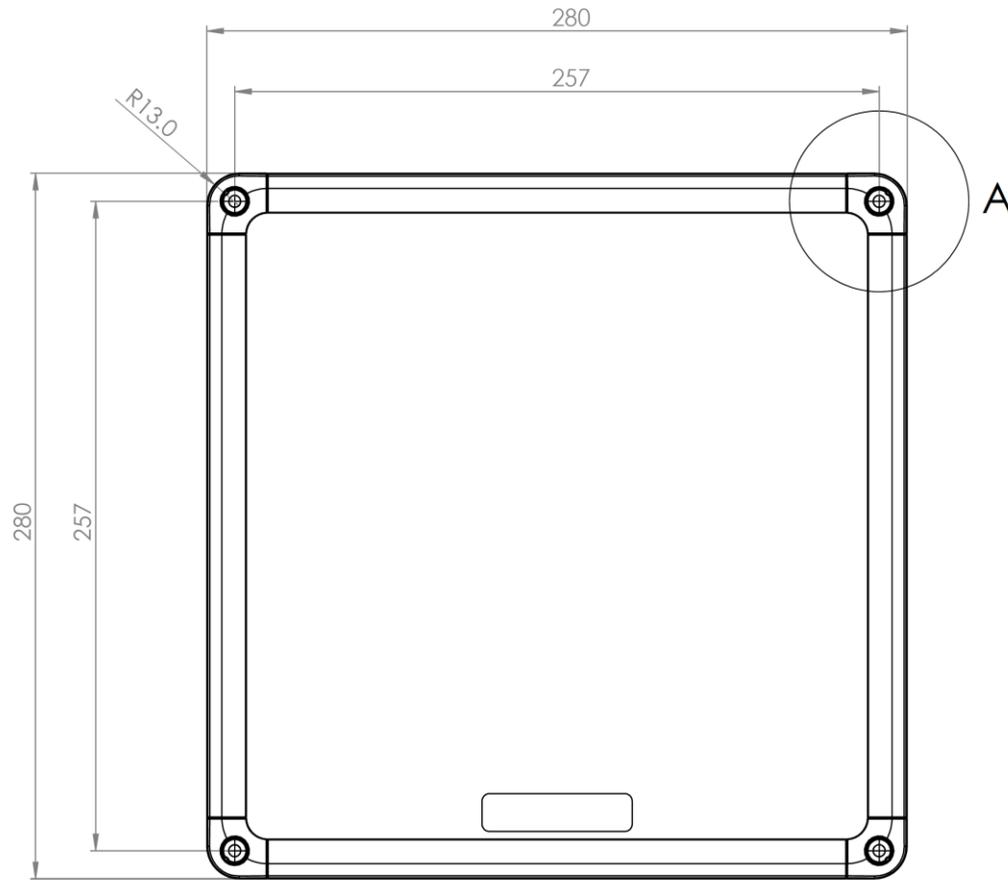
- Ensure that only finger tightness is used for the SMA connector.
- Use of tools to tighten the connector will apply excessive force and will damage the connector.
- Avoid any load or bending force from the cable on the connector.

The technical data contained in this publication is not a guarantee for which Times-7 Research Ltd assumes legal accountability. It is indicative of typical performance, and, if required, should be relied on for specific applications only after due verification.

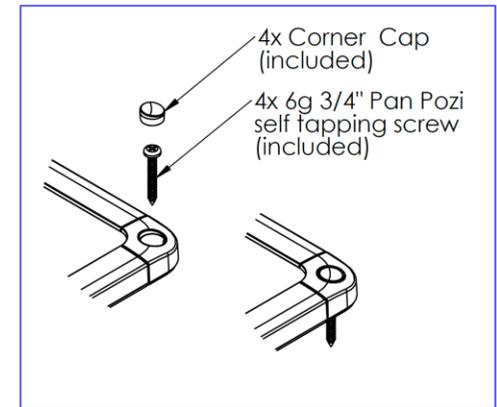
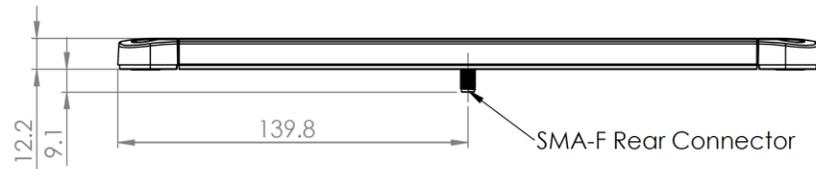
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Mechanical Drawing for the A4030C Circularly Polarized Antenna



DETAIL A
SCALE 1 : 1



<small>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TIMES-7 LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TIMES-7 IS PROHIBITED.</small>		<small>DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED TOLERANCES: NO DECIMAL PLACES ± 1 ONE PLACE DECIMAL ± 0.5</small>				DESCRIPTION		
DRAWN C Wilson		SIGNATURE <i>C Wilson</i>		DATE 06/06/2019		A4030C Antenna		
APPROVED R Lopez		SIGNATURE <i>R Lopez</i>		DATE 11/06/2019		SIZE A3	PART NO. 71269 (ETSI) , 71270 (FCC)	REV B
DO NOT SCALE DRAWING							SHEET 1 OF 1	

Mechanical Drawing for the A4030C/L Mounting

