

We are a high-tech company specialising in the design and manufacture of fixed RAIN 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 known for their SlimLine™ design, quality and performance.

Our antennas cover:

- A wide variety of RF characteristics
- A range of sizes
- Leading temperature performance
- Range of IP ratings

If your deployment requires a specialisation that is not met by our standard portfolio, Times-7 can design and manufacture **customised antennas** to meet your needs.

We are based in Lower Hutt, New Zealand, with a **global reach** as we export our products through our **extensive authorised partner network**.

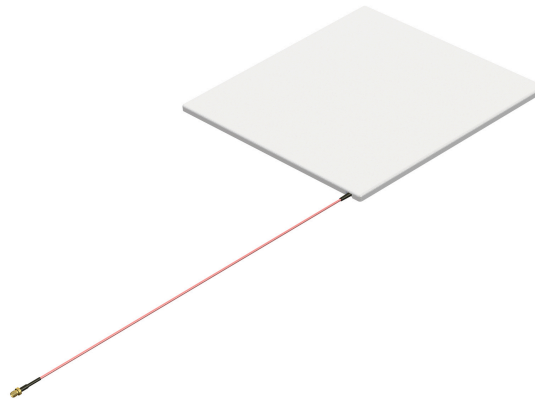
In addition to our world-class RAIN RFID antennas, customers appreciate Times-7's customer service and **in-depth technical support**.

We are **responsive** in supporting a large global customer base and ensuring the success of our customer's RFID implementations.



Patent Info:  
[www.times-7.com/patents](http://www.times-7.com/patents)

**Times-7 Research Ltd**  
10 Te Puni Street  
Lower Hutt 5012  
New Zealand



The A1130 True NearField Antenna designed to deliver precise near zone tag detection.

The A1130 is a specialised near-field RFID antenna designed for optimal performance in environments where challenging materials, such as metals and liquids, are present.

Its radiative near-field components ensure precise and reliable tag detection within a tightly confined read zone, eliminating surface dead spots and overcoming the limitations of far-field antennas.

With its 300 x 300 mm surface, the A1130 is ideal for applications requiring highly accurate tag reads in close proximity.

### ORDERING INFORMATION

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

Antenna	Frequency	Part Number	
		Black	White
A1130 Formed Radome	ETSI 865-868 MHz	75244	75245
A1130 Formed Radome	FCC 902-928 MHz	75246	75247
A1130 Flat Radome	ETSI 865-868 MHz	72022	72025
A1130 Flat Radome	FCC 902-928 MHz	72023	72026

Mounting Accessories Product Code	Part number
Mounting Plate 4mm	71943
Mounting Plate 6mm	71757

Cable Accessories Product Code	Cable Type	Part number
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

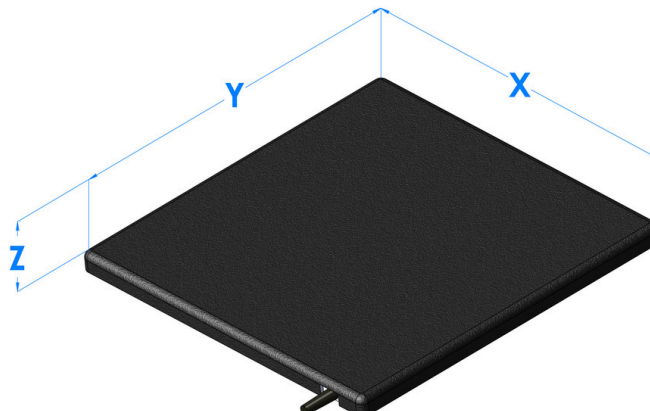
**PHYSICAL / ENVIRONMENTAL SPECIFICATIONS**

	Formed Radome	Flat Radome
Dimensions: (L x W x D)	304 x 304 x 8.5mm 11.96 x 11.96 x 0.33"	300 x 300 x 8.6mm 11.81 x 11.81 x 0.34"
Boxed Unit Dimensions: (L x W x D)	335 x 315 x 35mm 13.18 x 12.40 x 1.37"	335 x 315 x 35mm 13.18 x 12.40 x 1.37"
Weight:	Net: 0.98kg / 2.16lbs. Gross: 1.184kg / 2.61lbs.	Net: 0.58kg / 1.27lbs. Gross: 0.784kg / 1.72lbs.
Radome Material:	Flame-retardant ABS	
Environmental Rating:	IP54	
Operating / Storage Temperature:	0° to + 50°C / -30° to + 50°C +32° to +122°F / -22° to +122°F	
Mounting:	Integrated 100 x 100mm VESA mounting studs Optional rubber feet included	
Connector Type:	SMA female fly lead	
Cable Type / Length:	RG316 / 482mm / 19"	

**ELECTRICAL SPECIFICATIONS**

Frequency Range:	865-868 MHz (ETSI) / 902-928 MHz (FCC)
Polarisation:	Near-field
VSWR:	1.95 typical
Nominal Impedance:	50Ω
Anti-Static Protection:	Yes, DC grounded
Antenna Detection:	10kΩ resistance
Maximum Input Power:	3W

**AZIMUTH PLANES**



## APPLICATIONS

### LIQUIDS

For applications dealing with liquids, this antenna is an optimal choice. Its near-field energy remains unaffected by the potential side effects of liquids, ensuring a consistent read range and reliable tag reads.



### METAL

Metal-rich environments can disrupt far-field antennas, reducing gain and causing unpredictable read ranges. True NearField antennas overcome this by exclusively leveraging the magnetic field at the antenna surface, ensuring reliable performance.



### SHELVING

Near-field antennas used in shelving applications offer a close read range, enabling the tracking of items on each shelf without picking up stray signals from nearby shelves or passing items. This results in a more precise and focused read area, providing visibility over the specific items you aim to track.



## FORMED RADOME VS. FLAT RADOME

### Formed Radome

- Crafted through thermoforming, the formed radome has been engineered to deliver a seamless finish to the antenna. Its modern and sophisticated aesthetic is complemented by its ability to ensure optimal protection

### Flat Radome

- The flat radome is recognized by its sleek and contemporary flat form, showcasing attention to detail in the way it is skillfully finished, resulting in a refined and modest appearance.

## MOUNTING INSTRUCTIONS

- Secure the antenna on flat surfaces either by using mounting screws or opting for a VESA mounting plate tailored for the True NearField Antenna Series.
- The mounting holes (discreetly positioned on the rear side), won't compromise performance when drilled through.
- If drilling is not an option, each antenna comes with a self-adhesive rubber feet kit. Simply attach these to the integrated mounting holes to prevent slippage.



## INSTALLATION INSTRUCTIONS

- Ensure that only finger tightness is used for the SMA connector. The use of tools to tighten the connector will apply excessive force and will damage the connector.
- Avoid any excessive pulling force on the cable and be mindful of its bend radius to prevent damage and ensure proper functioning.


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.

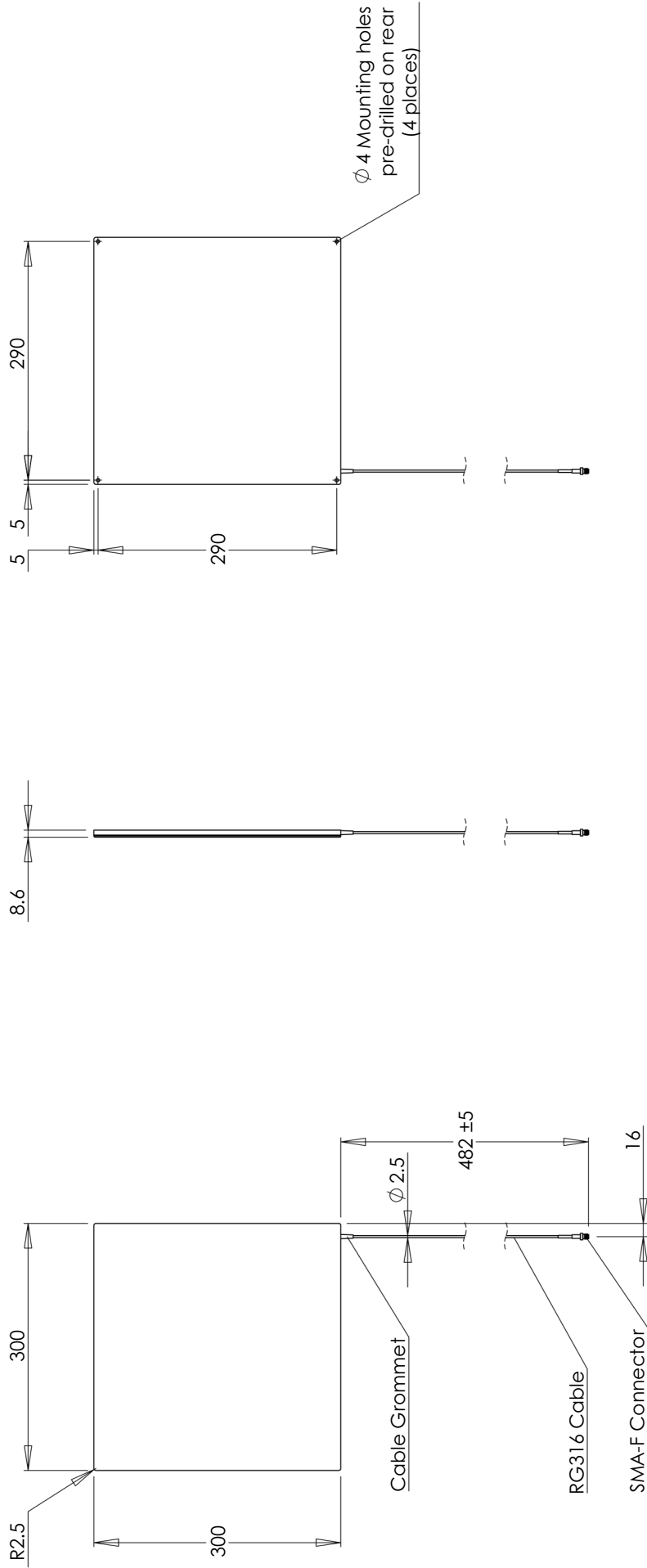
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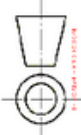


Part No.	Description
75244	A1130 True NearField Antenna (Formed Radome) ETSI - Black
75246	A1130 True NearField Antenna (Formed Radome) FCC - Black
75245	A1130 True NearField Antenna (Formed Radome) ETSI - White
75247	A1130 True NearField Antenna (Formed Radome) FCC - White

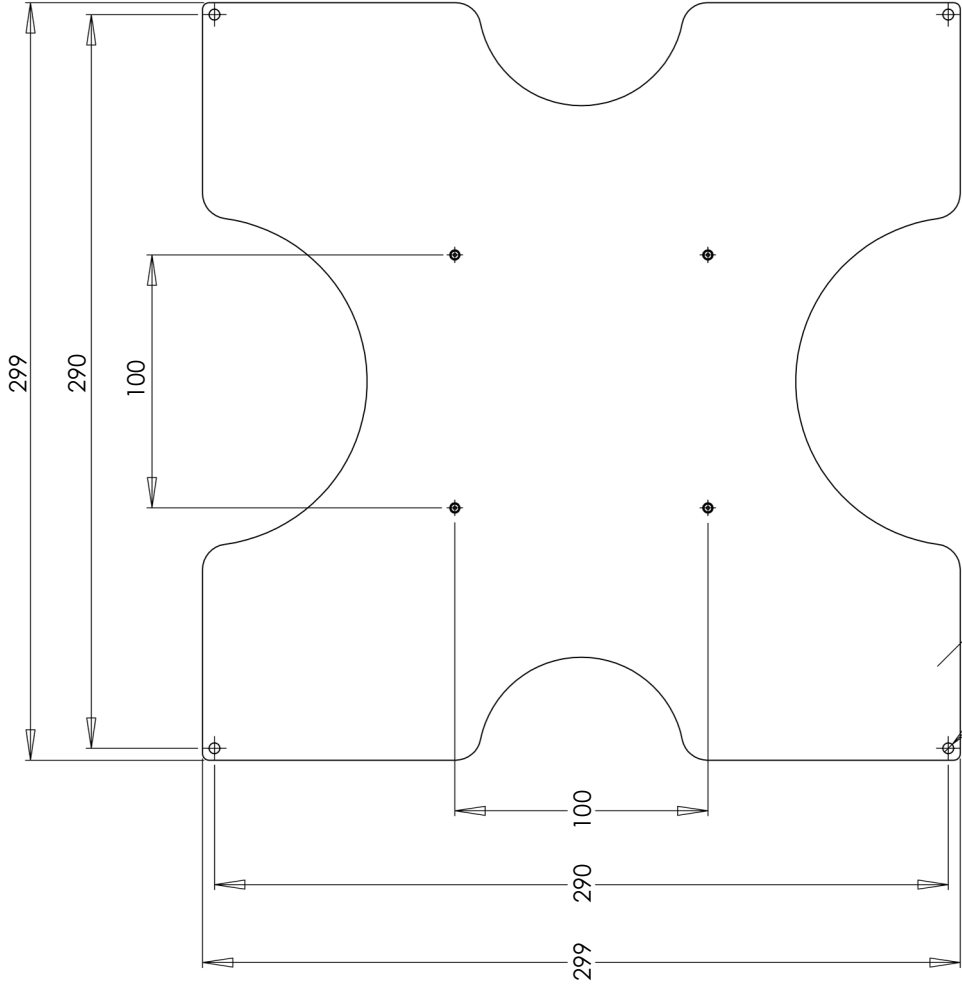
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	DRAWN BY: <b>M. Price</b>		
APPROVED BY: <b>P. Wilcock</b>	DATE: <b>26-10-23</b>	SIZEPART NO. <b>A3</b> Refer to table	REV <b>B</b>
DO NOT SCALE DRAWING			SHEET 1 OF 3



Part No.	Description
72022	A1130 True NearField Antenna (Flat Radome) ETSI - Black
72023	A1130 True NearField Antenna (Flat Radome) FCC - Black
72025	A1130 True NearField Antenna (Flat Radome) ETSI - White
72026	A1130 True NearField Antenna (Flat Radome) FCC - White

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	<div>DRAWN BY: M. Price</div>	<div>DATE: 26-10-23</div>	SIZE/PART NO. A3 Refer to table	REV B
APPROVED BY: P. Wilcock		<div>DATE: 26-10-23</div>	DO NOT SCALE DRAWING SHEET 1 OF 3	

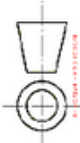




M4 VESA Studs  
(4 places)

White Powdercoated Aluminium

$\phi$  4.3 Screw Holes (4 places)

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			A1130 Mounting Bracket		
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APPROVED BY:	P. Wilcock	DATE:	26-10-23	A3 72093	B
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