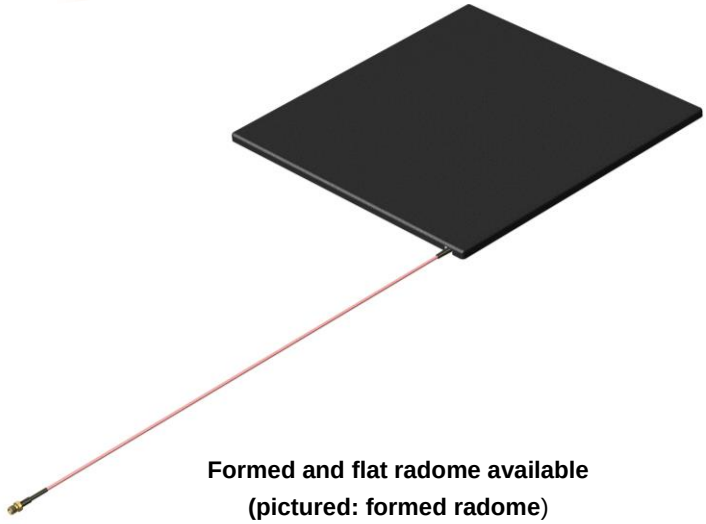
A1130
True NearField™ Antenna



Formed and flat radome available
(pictured: formed radome)

The A1130 True NearField Antenna is your solution for precise “near-zone only” tag detection. This specialized antenna excels in applications involving metals, liquids, and other challenging materials that can be elusive for far-field antennas. With its radiative near-field components, the A1130 ensures reliable tag reads within a tightly confined read zone.

What sets the True NearField antenna series apart is its versatile design, available in three dimensions – from a compact 154 x 154mm to a 604 x 304mm footprint. You can choose between classic black or white to suit your aesthetics.

Mounting the A1130 is effortless, thanks to integrated rear-side mounting holes for secure installation with screws. Alternatively, you could choose to use the provided self-adhesive rubber feet kit to prevent antenna slippage.

Ordering Information

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

*Antenna Product Code	Band	Part Number
A1130 Black	ETSI 865-868 MHz	75244
A1130 Black	FCC 902-928 MHz	75246
A1130 White	ETSI 865-868 MHz	75245
A1130 White	FCC 902-928 MHz	75247
***Mounting Accessories Product Code**	**Band**	**Part Number**
Mounting Plate 4mm	N/A	71943
Mounting Plate 6mm	N/A	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

*RoHS & CE compliant.

View the Times-7 Cable Accessory datasheet here

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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Patent Info: www.times-7.com/patents

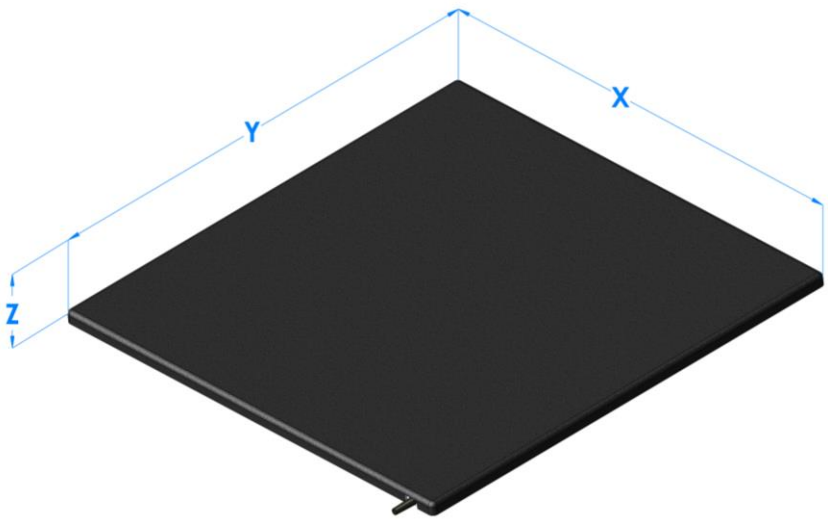
Physical / Environmental Specifications

Dimensions Unboxed: **Length (x) x Width (y) x Depth (z)**	304 x 304 x 8.5mm 11.96 x 11.96 x 0.33"
Boxed Unit Dimensions: **(L x W x D)**	335 x 315 x 35mm 13.18 x 12.40 x 1.37"
Weight:	Net: 0.58kg / 1.27lbs. Gross: 0.784kg / 1.72lbs.
Radome Material:	Flame retardant ABS
Environmental Rating:	IP54
Operating and Storage Temperature:	0° to +50°C / -30° to +50°C +32° to +122°F / -22° to +122°F
Mounting:	Integrated mounting holes Optional rubber feet included (20 x 20 x 1.45mm)
Connector Type:	SMA female fly lead
Cable Type / Length:	RG316 / 482mm / 19”

Electrical Specifications

Frequency Range:	865-867 MHz (ETSI) / 902-928 MHz (FCC)
Polarization:	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

Selecting the right antenna is pivotal for effective liquid asset reading. The True NearField reader antenna range stands out with their powerful surface fields that can effectively penetrate through liquids. Utilizing a True NearField antenna near the tracked item yields superior read results, minimizing RF radiation absorption by the liquid.

Metal

Metal-rich surroundings can significantly impact the far-field antennas, causing reduced gain while increasing RF energy reflection. This, in turn, leads to an erratic and unpredictable read range and potential read losses. To circumvent these challenges, True NearField antennas prove advantageous, as they exclusively operate using the magnetic field at the antenna surface.

Shelving

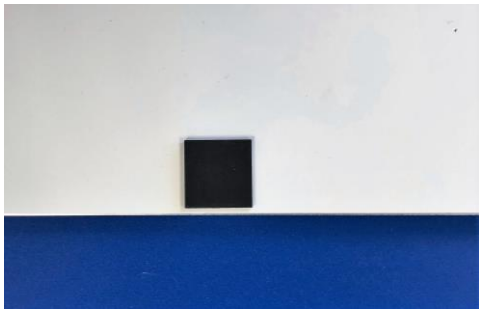
In shelving applications, the close-range read capabilities of True NearField antennas enable precise item tracking on individual shelves, preventing unintended readings from neighboring shelves or passing items. This results in a clearly defined and concentrated reading area, increasing visibility over the specific items you wish to track.

Mounting Information

Secure the antenna on flat surfaces either by using mounting screws or opting for a VESA mounting plate tailored for the NearField Antenna Series. Discreetly positioned on the rear side, the mounting holes won't compromise performance when drilled through. For detailed instructions, check out our mounting guide.

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.

Integrated Mounting Holes



Self-Adhesive Rubber Feet

Installation Instructions

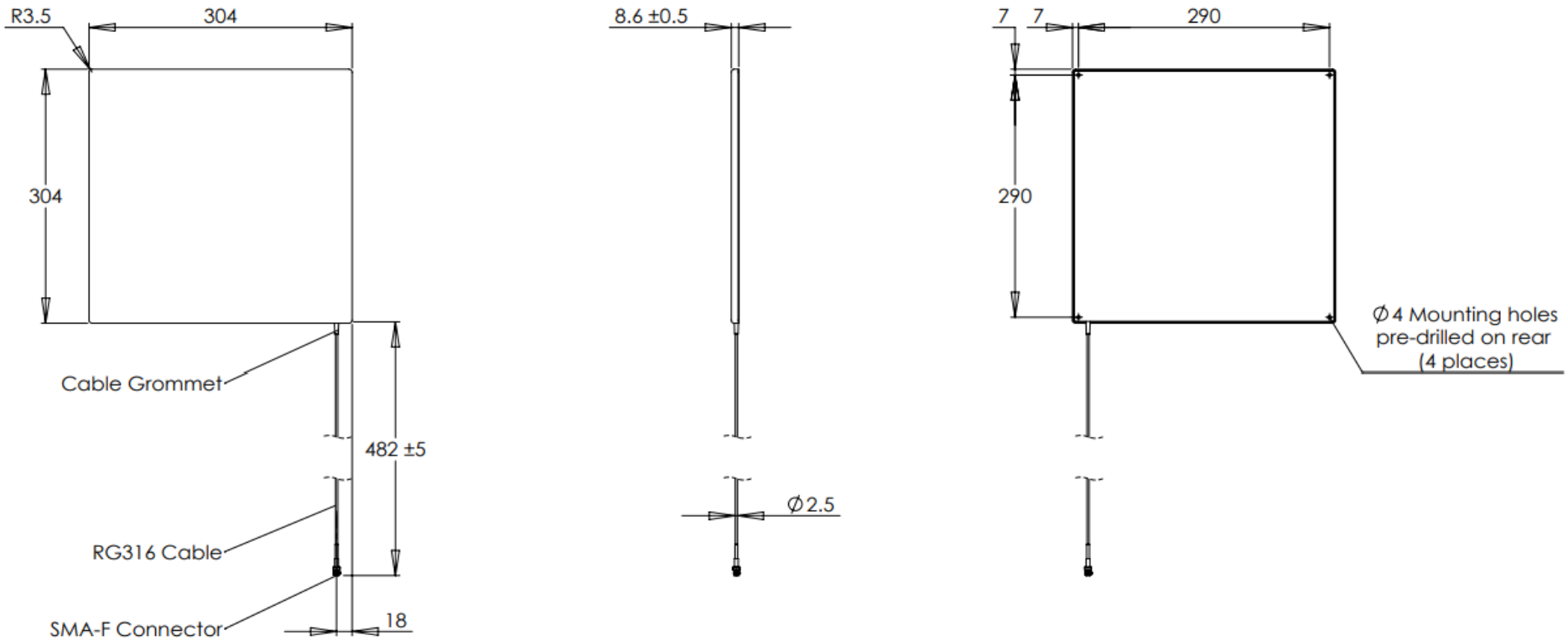
Ensure that only finger tightness is used for the SMA connector. Use of tools to tighten the connector will apply excessive force and will damage the connector.

Avoid any load or bending force from the cable on the connector.

View the Times-7 Cable Accessory datasheet here.

For additional information such as RoHS, CE, REACH or CAD models please contact us at sales@times-7.com.

Mechanical Drawing for the A1130 True NearField Antenna (Formed Radome)



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

DIMENSIONS ARE IN mm

UNLESS OTHERWISE SPECIFIED
TOLERANCES:
NO DECIMAL PLACES ± 1
ONE PLACE DECIMAL ± 0.8

DRAWN BY: Maria Price
DATE: 26-10-23

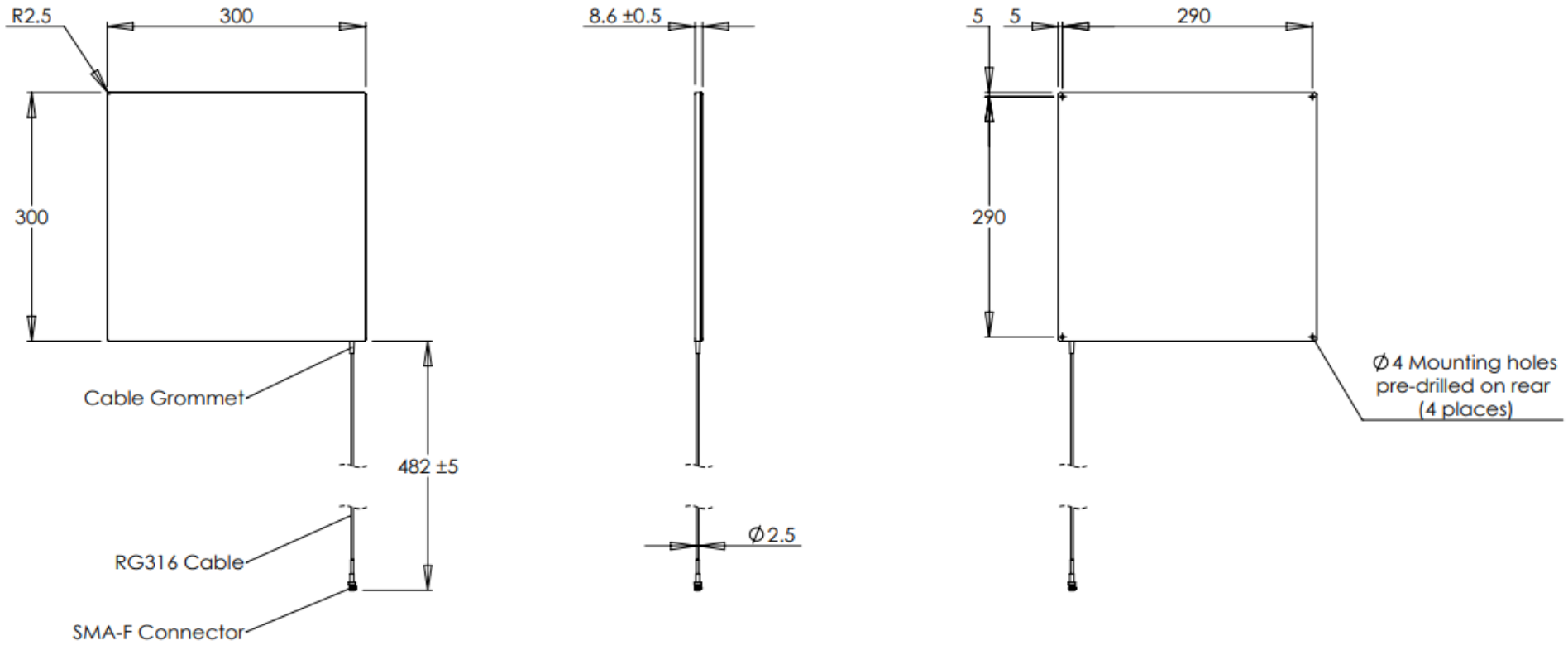
APPROVED BY: Peter Wilcock
DATE: 26-10-23

DESCRIPTION
A1130 True NearField Antenna (Formed Radome)

SIZE A3 | PART NO. Refer to table | REV A

DO NOT SCALE DRAWING | SHEET 1 OF 1

Mechanical Drawing for the A1130 True NearField Antenna (Flat Radome)



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

DIMENSIONS ARE IN mm

UNLESS OTHERWISE SPECIFIED
TOLERANCES:
NO DECIMAL PLACES ± 1
ONE PLACE DECIMAL ± 0.8

DRAWN BY : Maria Price

DATE : 26-10-23

APPROVED BY : Peter Wilcock

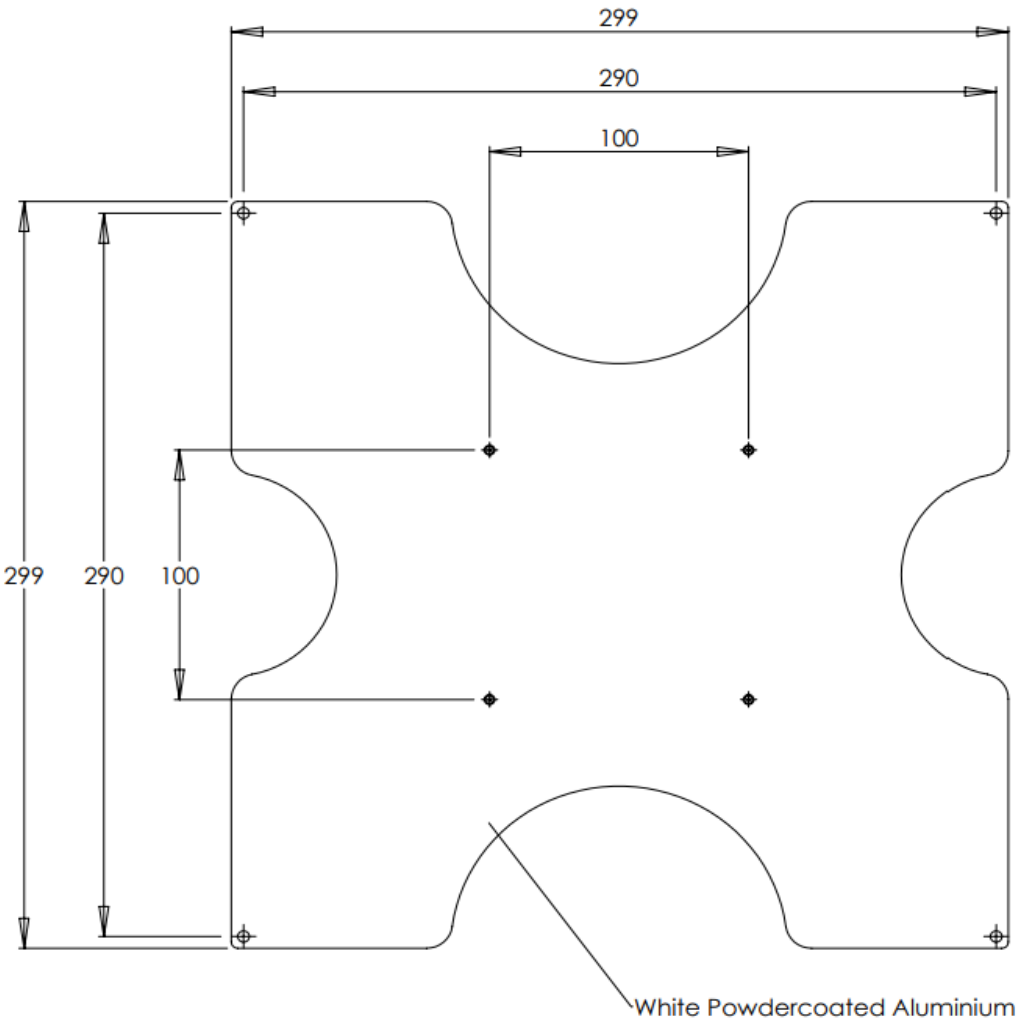
DATE : 26-10-23

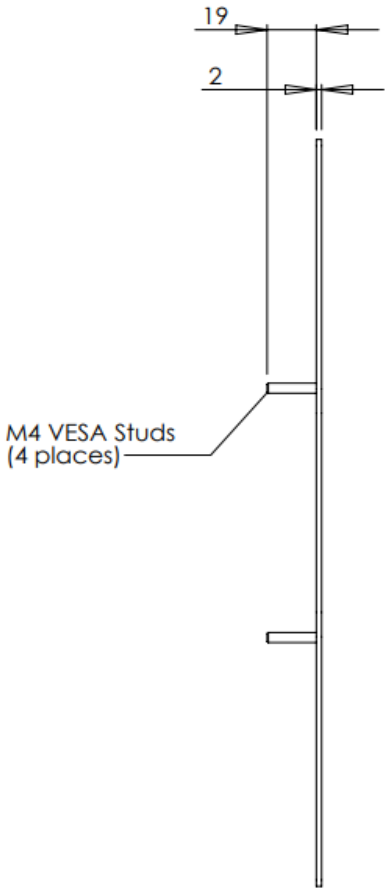
DESCRIPTION
A1130 True NearField Antenna (Flat Radome)

SIZE A3 | PART NO. Refer to table | REV A

DO NOT SCALE DRAWING | SHEET 1 OF 1

Mechanical Drawing for the A1130 Mounting Plate





THE IN FORMATION 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.	DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED TOLERANCES: NO DECIMAL PLACES ± 1 ONE PLACE DECIMAL ± 0.8		DESCRIPTION A1130 Mounting Plate
DRAWN BY : Maria Price		DATE: 26-10-23	
APPROVED BY: Peter Wilcock		DATE: 26-10-23	
			SIZE A3 / PART NO. 72093 / REV A
			DO NOT SCALE DRAWING / SHEET 1 OF 1