

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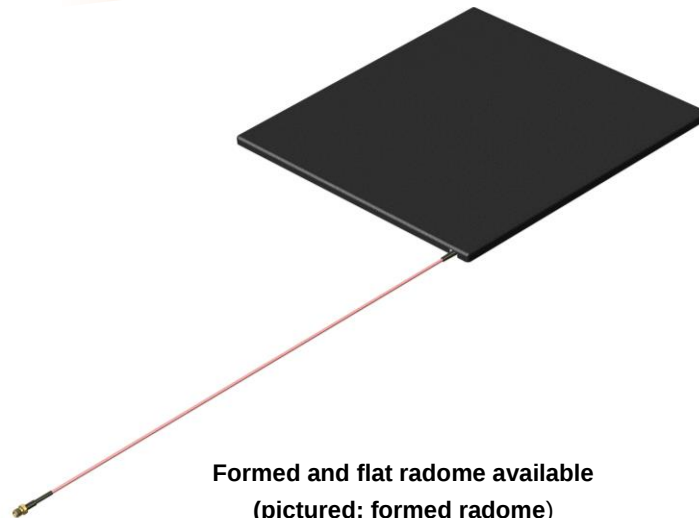
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Patent Info: [www.times-7.com/patents](http://www.times-7.com/patents)



**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](#)

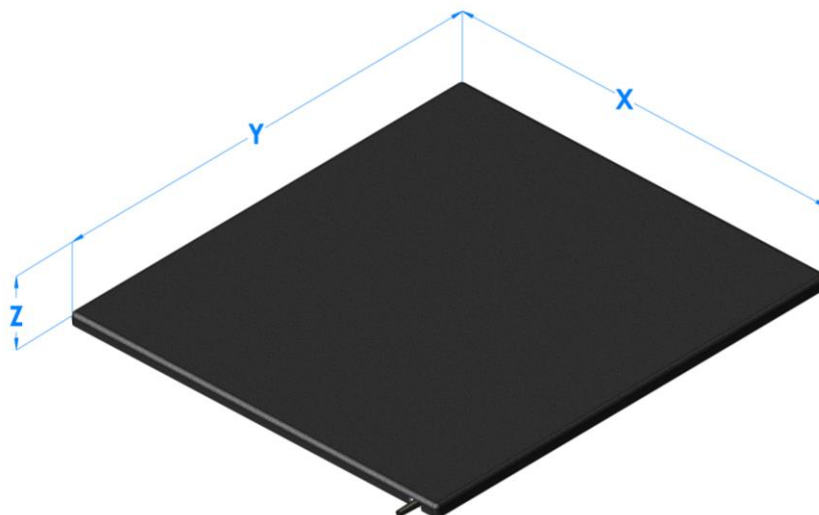
## Physical / Environmental Specifications

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

## Electrical Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| <b>Frequency Range:</b>        | 865-867 MHz (ETSI) / 902-928 MHz (FCC) |
| <b>Polarization:</b>           | Near-Field                             |
| <b>VSWR:</b>                   | 1.95 typical                           |
| <b>Nominal Impedance:</b>      | 50Ω                                    |
| <b>Anti-static Protection:</b> | Yes, DC Grounded                       |
| <b>Antenna Detection:</b>      | 10KΩ Resistance                        |
| <b>Maximum Input Power:</b>    | 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.



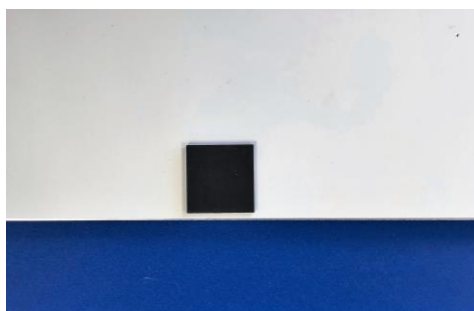
## Mounting Information

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.

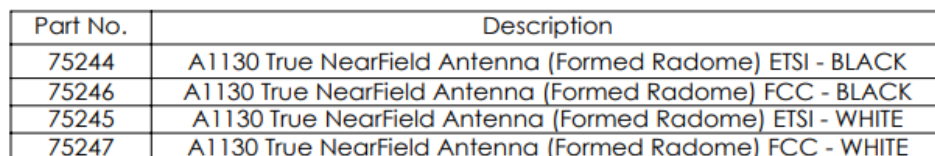
Avoid any load or bending force from the cable on the connector.

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](mailto:sales@times-7.com).

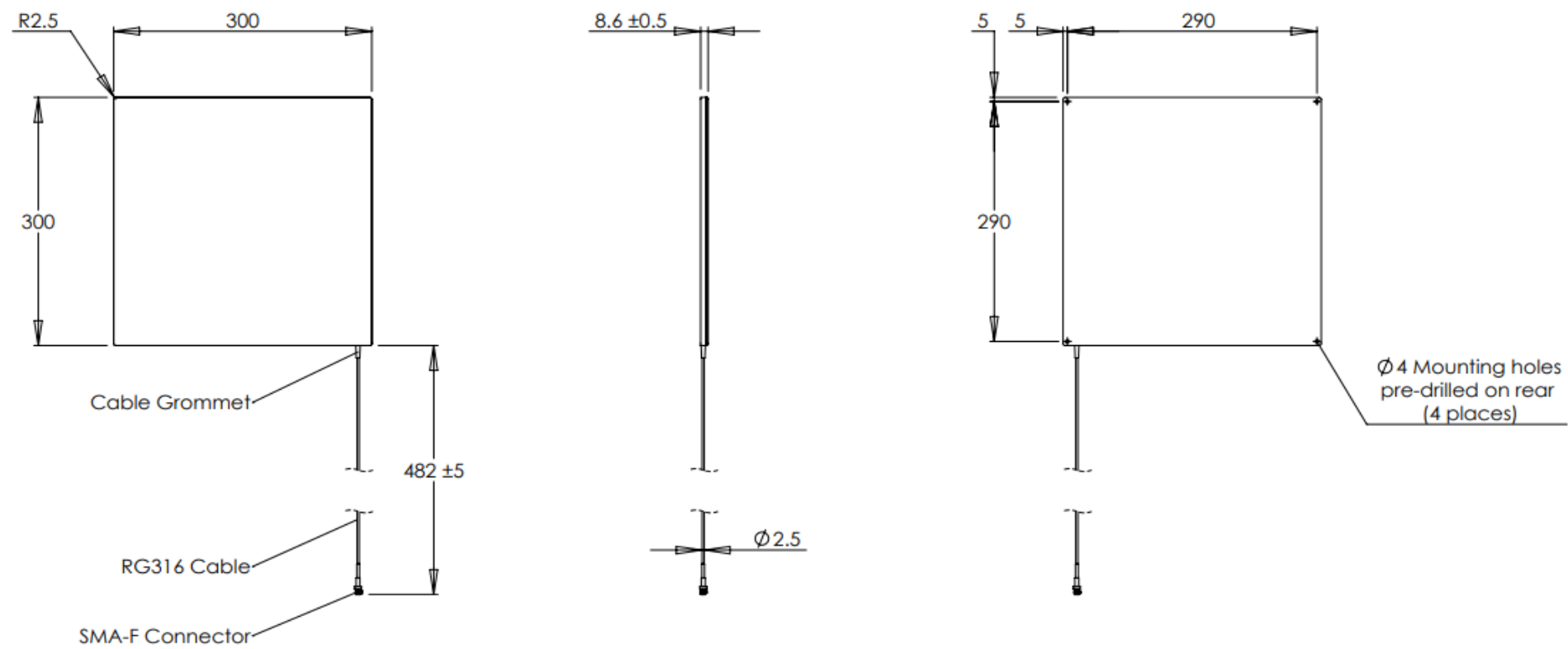
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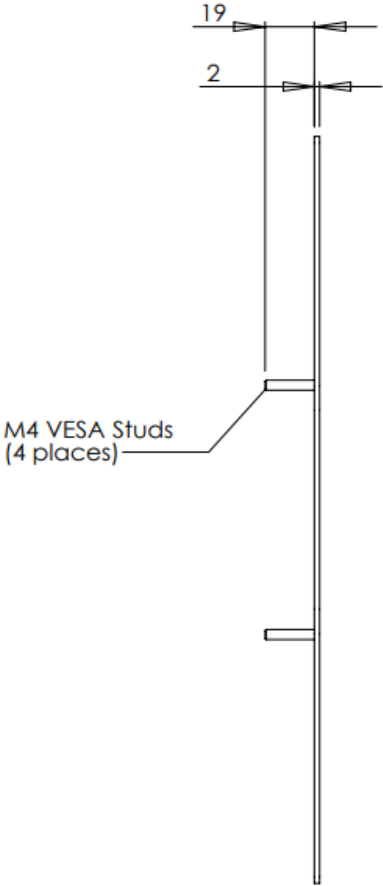
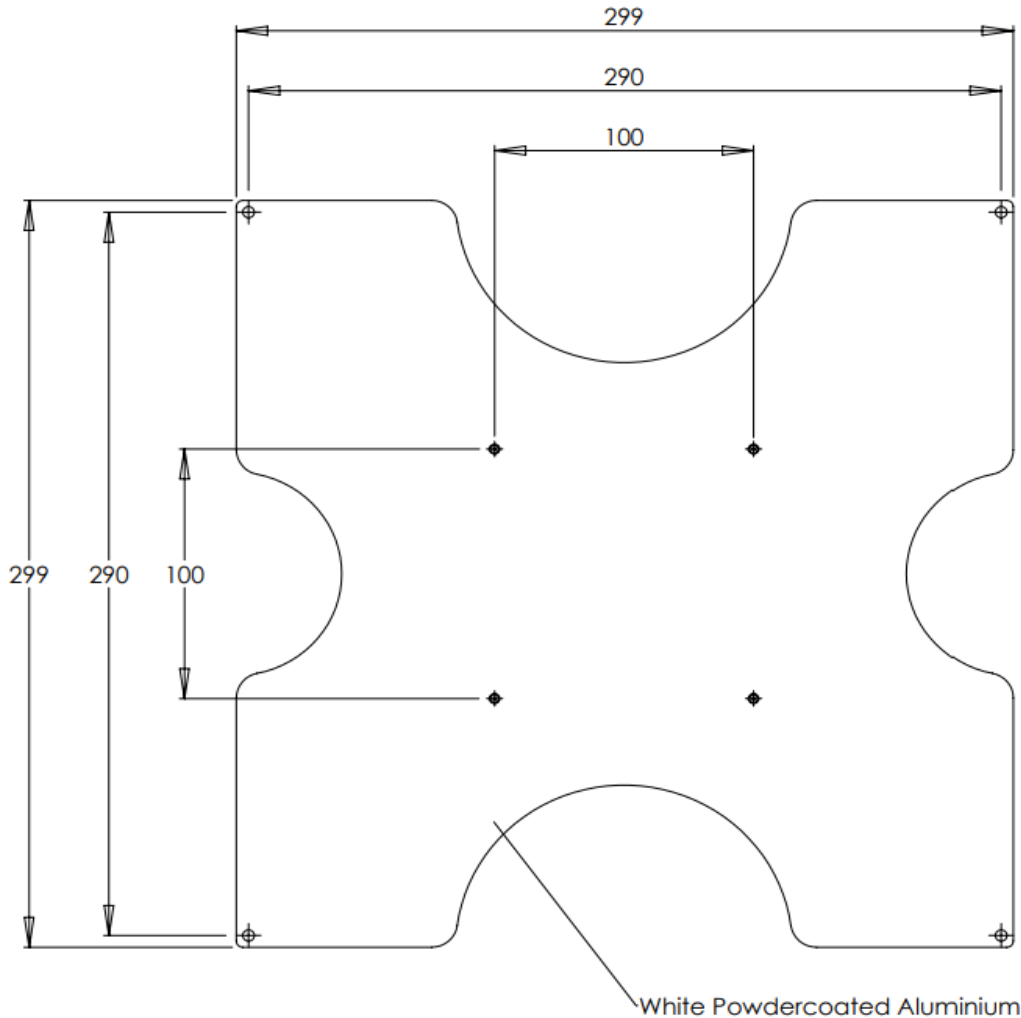
Mechanical Drawing for the A1130 True NearField Antenna (Flat Radome)

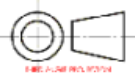


| Part No. | Description                                             |
|----------|---------------------------------------------------------|
| 72022    | A1130 True NearField Antenna (Flat Radome) ETSI - Black |
| 72023    | A1130 True NearField Antenna (Flat Radome) FCC - Black  |
| 72025    | A1130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

|                                                                                                                                                                                |  |                                                                                                                       |  |                                                                                       |  |                                                              |  |                 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|-----------------|--|
| 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. |  | DIMENSIONS ARE IN mm<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES:<br>NO DECIMAL PLACES ± 1<br>ONE PLACE DECIMAL ± 0.8 |  |  |  | DESCRIPTION<br>A1130 True NearField Antenna<br>(Flat Radome) |  |                 |  |
| DRAWN BY :<br>Maria Price                                                                                                                                                      |  | DATE :<br>26-10-23                                                                                                    |  | SIZE<br><b>A3</b>                                                                     |  | PART NO.<br>Refer to table                                   |  | REV<br><b>A</b> |  |
| APPROVED BY :<br>Peter Wilcock                                                                                                                                                 |  | DATE :<br>26-10-23                                                                                                    |  | DO NOT SCALE DRAWING                                                                  |  |                                                              |  |                 |  |
|                                                                                                                                                                                |  |                                                                                                                       |  |                                                                                       |  | SHEET 1 OF 1                                                 |  |                 |  |

Mechanical Drawing for the A1130 Mounting Plate



|                                                                                                                                                                                |  |                                                                                                                       |  |                                                                                                               |  |                                     |  |                 |  |              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|-----------------|--|--------------|--|
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| DRAWN BY :<br>Maria Price                                                                                                                                                      |  | DATE:<br>26-10-23                                                                                                     |  | SIZE<br><b>A3</b>                                                                                             |  | PART NO.<br>72093                   |  | REV<br><b>A</b> |  |              |  |
| APPROVED BY:<br>Peter Wilcock                                                                                                                                                  |  | DATE:<br>26-10-23                                                                                                     |  | DO NOT SCALE DRAWING                                                                                          |  |                                     |  |                 |  | SHEET 1 OF 1 |  |