

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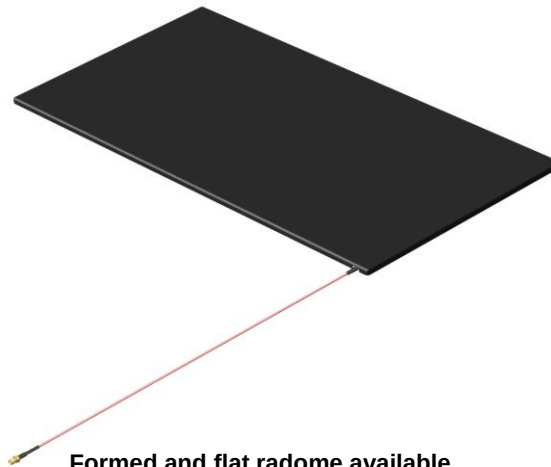
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Patent Info: www.times-7.com/patents



Formed and flat radome available
(pictured: formed radome)

The A1163 is the largest antenna in our True NearField Antenna Series and the largest near-field RFID antenna on the market, measuring 604 x 304 x 8.5mm. This antenna was designed to deal with difficult to read assets, such as liquids or metals, much like the other antennas in this series.

Our True NearField antennas excel in applications demanding precise “near zone only” tag detection. The A1163 guarantees dependable tag reads within an ultra-constrained zone by minimizing far-field components and eliminating surface dead spots. Its expansive footprint simplifies installation, reducing costs and complexity requiring fewer readers and cables.

Mounting the A1163 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
A1163 Black	ETSI 865-868 MHz	75248
A1163 Black	FCC 902-928 MHz	75250
A1163 White	ETSI 865-868 MHz	75249
A1163 White	FCC 902-928 MHz	75251
*Mounting Accessories Product Code	Band	Part Number
Mounting Plate (A1163)	N/A	72095
*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](#).

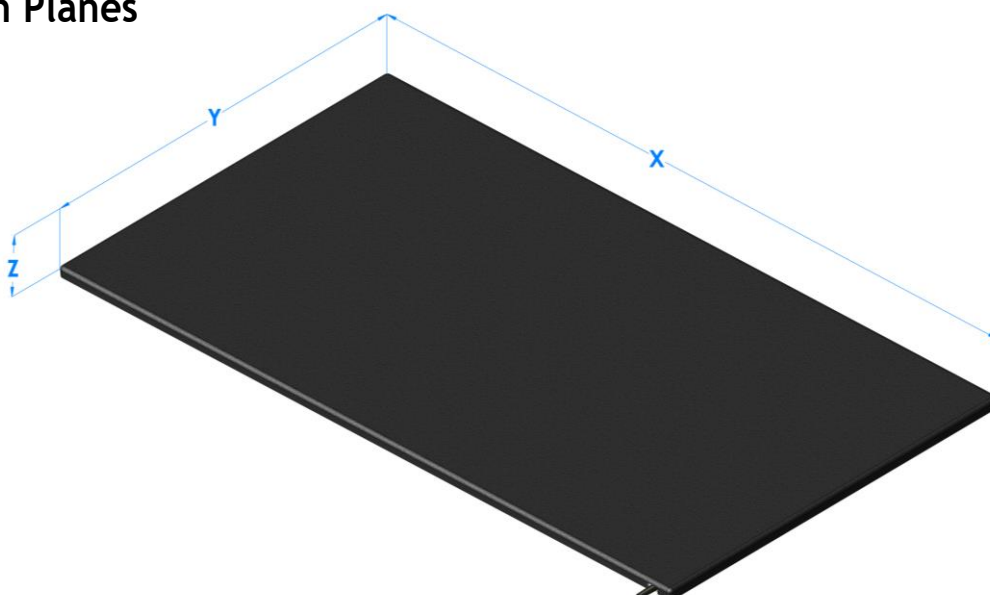
Physical / Environmental Specifications

Unboxed Dimensions: *Length (x) x Width (y) x Depth (z)	604 x 304 x 8.5mm 23.77 x 11.96 x 0.33"
Boxed Unit Dimensions: (L x W x D)	620 x 335 x 30mm 24.40 x 13.18 x 1.18"
Weight:	Net: 1.175kg / 2.59lbs. Gross: 1.491kg / 3.29lbs.
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 mounting holes Optional rubber feet included (20 x 20 x 1.45mm)
Connector Type:	SMA female fly lead
Cable Type / Length:	RG316 cable / 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

Point of Sale (POS)

Employing a near-field antenna in POS systems offers an effective means of expediting the identification process at the checkout counter. With an NF antenna, all appropriately tagged items placed on the antenna can be instantly and accurately identified, while mitigating the risk of stray reads from passing items.



Metal and Liquids

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



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.



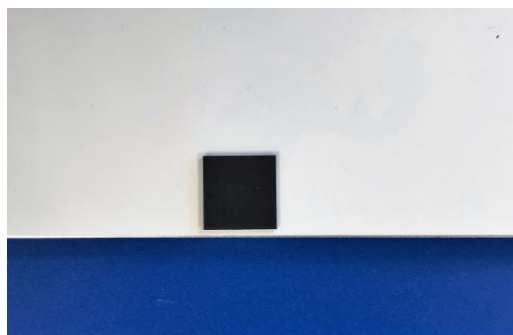
Mounting Information

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. 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 excessive pulling force on the cable and be mindful of its bend radius to prevent damage and ensure proper functioning.

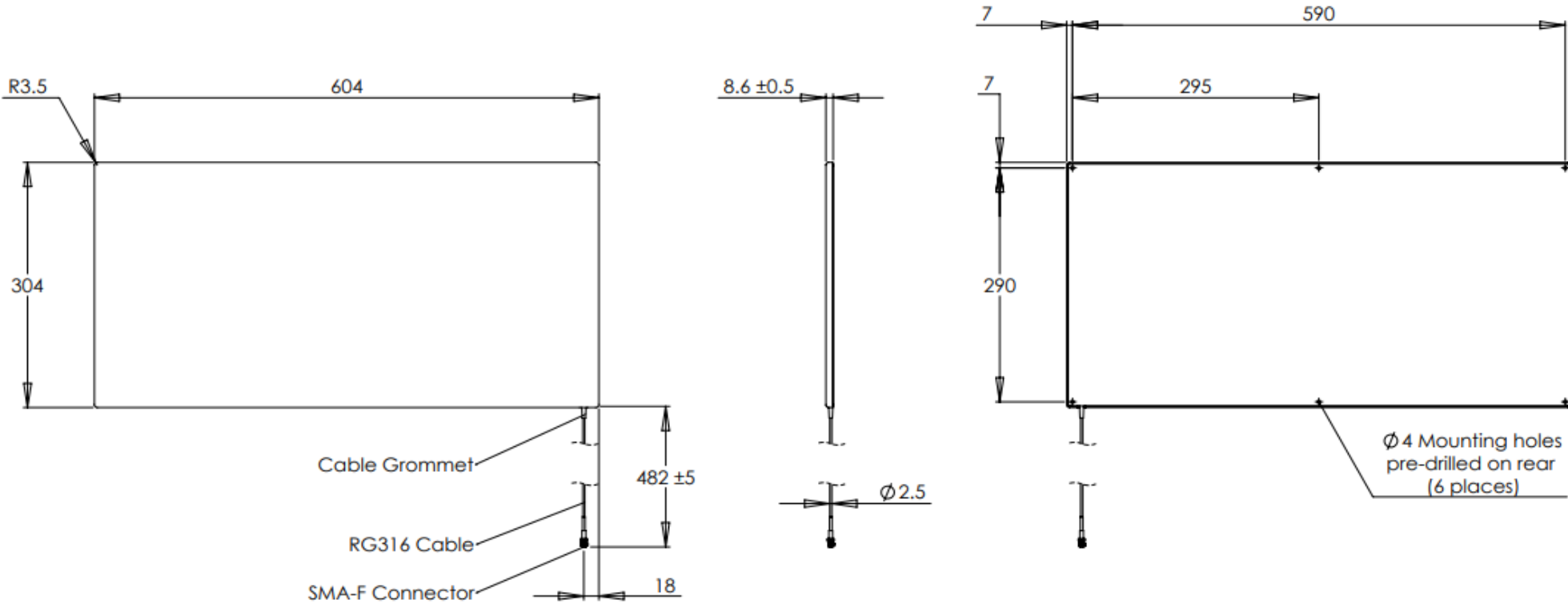
View the Times-7 Cable Accessory datasheet [here](#).

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

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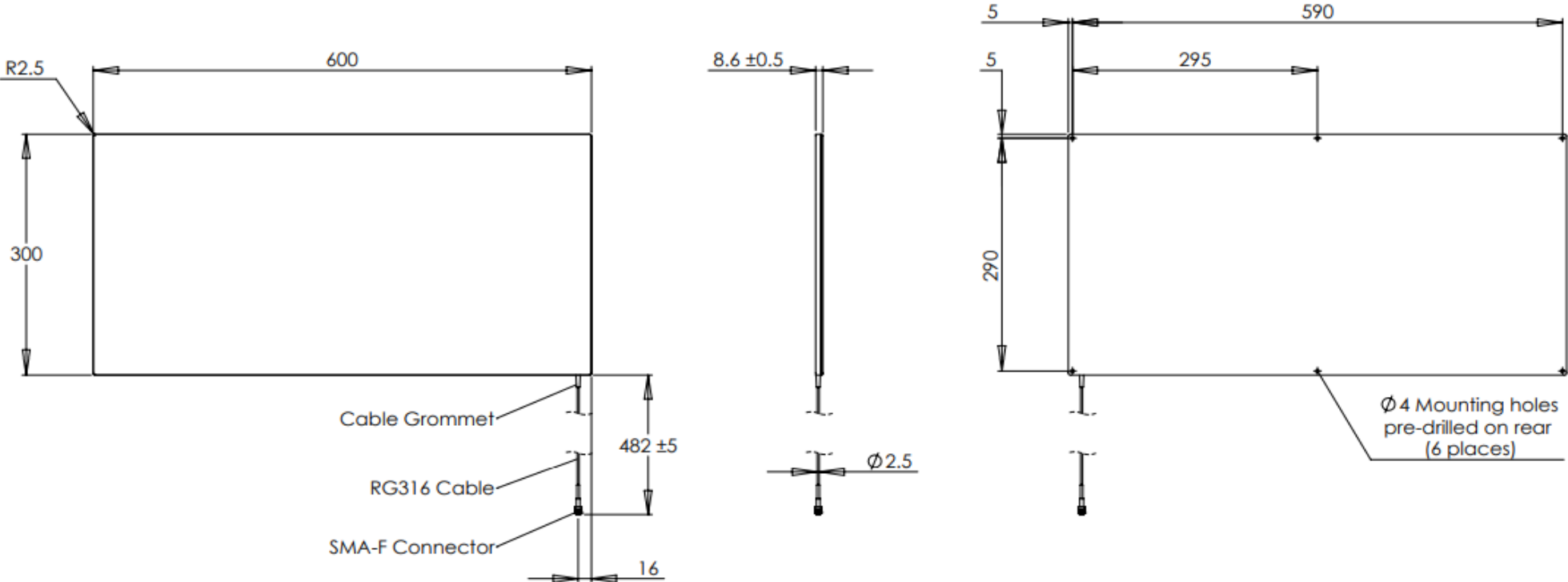
Mechanical Drawing for the A1163 True NearField Antenna (Formed Radome)



Part No.	Description
75248	A1163 True NearField Antenna (Formed Radome) ETSI - BLACK
75250	A1163 True NearField Antenna (Formed Radome) FCC - BLACK
75249	A1163 True NearField Antenna (Formed Radome) ETSI - WHITE
75251	A1163 True NearField Antenna (Formed 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 UNLESS OTHERWISE SPECIFIED TOLERANCES: NO DECIMAL PLACES ± 1 ONE PLACE DECIMAL ± 0.8				DESCRIPTION A1163 True NearField Antenna (Formed Radome)			
DRAWN BY: Maria Price		DATE: 26-10-23		SIZE A3		PART NO. Refer to table		REV A	
APPROVED BY: Peter Wilcock		DATE: 26-10-23		DO NOT SCALE DRAWING					
						SHEET 1 OF 1			

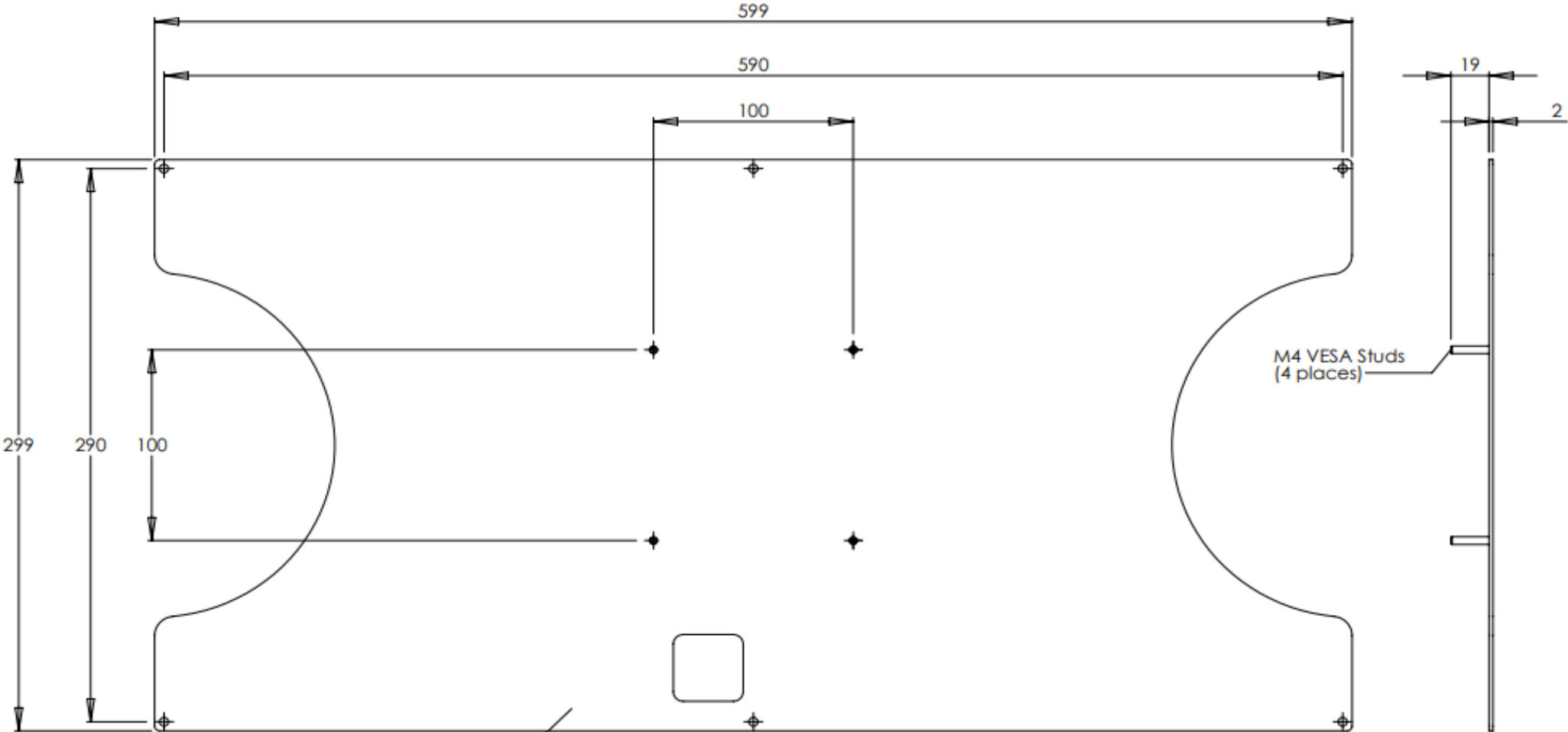
Mechanical Drawing for the A1163 True NearField Antenna (Flat Radome)



Part No.	Description
72031	A1163 True NearField Antenna (Flat Radome) ETSI - BLACK
72032	A1163 True NearField Antenna (Flat Radome) FCC - BLACK
72033	A1163 True NearField Antenna (Flat Radome) ETSI - WHITE
72034	A1163 True NearField Antenna (Flat Radome) FCC - WHITE

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DRAWN BY: Maria Price		DATE: 26-10-23		SIZE A3	
APPROVED BY: Peter Wilcock		DATE: 26-10-23		PART NO. Refer to table	
				DO NOT SCALE DRAWING	
				SHEET 1 OF 1	

Mechanical Drawing for the A1163 Mounting Plate



White Powdercoated Aluminium

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DRAWN BY : Maria Price		DATE : 26-10-23		SIZE A3		PART NO. 72095	
APPROVED BY : Peter Wilcock		DATE : 26-10-23		DO NOT SCALE DRAWING		REV A	
						SHEET 1 OF 1	