

ABOUT TIMES-7

We are a high-tech company specializing in the design and manufacture of RAIN (UHF) RFID antennas. Founded in 2006, Times-7 has developed the largest portfolio of fixed RAIN RFID reader antennas. Based in Lower Hutt, New Zealand we export all over the world through an authorized network.

Times-7 antennas are famous for their quality and performance.

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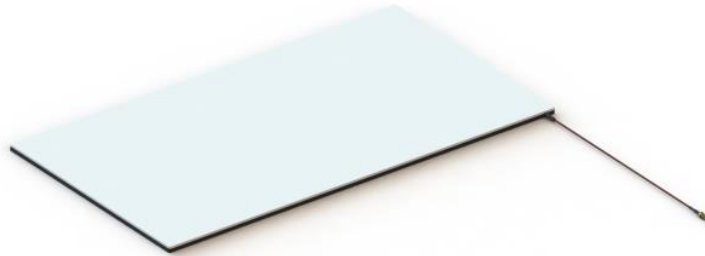
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Patent Info: www.times-7.com/patents



Offers true nearfield read zones
surface of 300 x 600 mm
No surface dead zones
Black or white random available

A1163 TRUE RAIN NEARFIELD™

The A1163 is the largest antenna in our new True NearField Antenna Series as well as the largest NearField RFID antenna on the market with a surface of 300 x 600 mm at just 8.6 mm height. This antenna was designed to deal with tricky assets, such as liquids or metals, much like the other antennas in this series.

Our True NearField antennas are explicitly designed for applications, which require "near zone only" tag detection. With hardly any far-field components and no surface dead spots, the A1163 antenna provides reliable tag reads within a very constricted read zone. There is also a very large footprint available, which lowers the cost and complexity during installation meaning you will need less readers and cables when using this antenna.

The A1163 antenna has integrated mounting holes on the rear side, which can be drilled through for using mounting screws. In addition, this antenna comes with an optional self-adhesive rubber feet kit to stop the antenna from slipping.

Ordering Information (please quote product code, band and part no.)

Antenna Product Code	Band	Part No Black	Part No White
A1163	ETSI 865-867 MHz	72031	72033
A1163	FCC 902-928 MHz	72032	72034

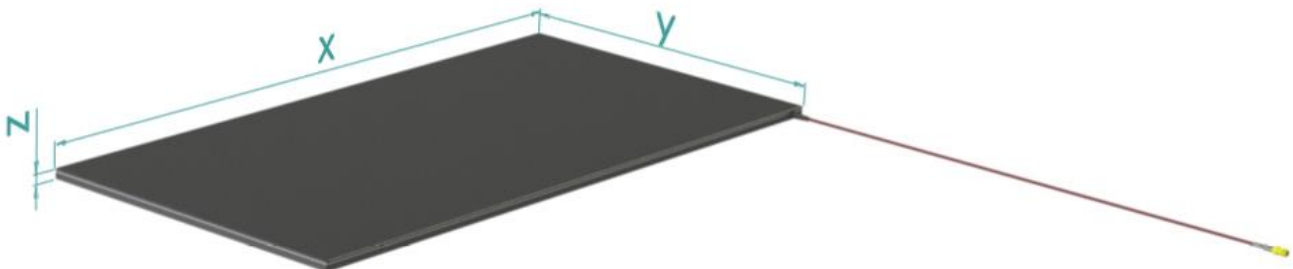
Physical / Environmental Specifications

Dimensions (L x W x D)	600 mm x 300mm x 8.6mm 23.62" x 11.81" x 0.34"
Boxed Unit Dimensions (L x W x D)	620 mm x 335 mm x 30 mm 24.40" x 13.18" x 1.18"
Weight	Net: 1.175kg / 2.59 lbs. Gross: 1.491 kg / 3.29 lbs.
Radome Material and Color	Fire retardant ABS (available in black and white, see order information)
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 on the backside of the antenna (refer to mechanical drawings) / Optional rubber feet included (20 x 20 x 1.45 mm)
Connector Type / Position	SMA female side fly lead (482mm, 19" / RG316 cable)

Electrical Specifications

Frequency Range	865-867 MHz, 902-928 MHz
Polarization	Near Field
VSWR	1.95 typical
Nominal Impedance	50 Ω
Anti-static Protection	Yes, DC Grounded
Antenna Detection	10K Ω Resistance
Maximum Input Power	3 W

Antenna Planes





Application examples for the A1163 Antenna

POS

Using a near-field antenna for POS systems is a great way to reduce the time of identifying each item at the check-out counter. Our A1163 antenna can instantly and correctly identify all items that are placed on the antenna so long as the items are tagged appropriately. Having the items in close proximity to the near-field antenna means that any item moving past or around the antenna cannot be unintentionally read, which could result in the customer paying for items they did not want to purchase.



Metals

Metal environments affect the performance of far-field antennas in such a way, that it lowers the gain or reflects the RF energy, resulting in an inconsistent and unpredictable read range and read losses. These issues can be avoided by using near-field antennas, due to the fact, that these antennas operate using the magnetic field on the antennas surface only.



Shelving

The proximity read range of near-field antennas used in shelving applications allows for tracking items on each individual shelf avoiding stray reads in neighboring shelves or items which are passing by. This allows for a more defined and focused read area, in which you gain visibility over the items that you want to track.



Mounting Information

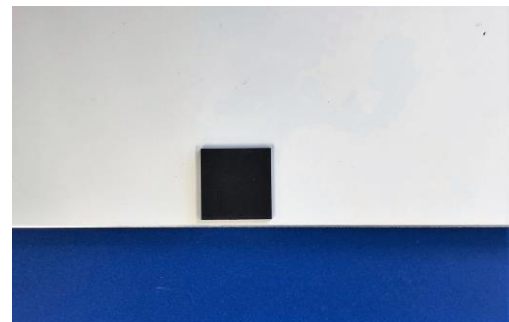
The A1163 *True-NearField*™ antenna can be flush mounted on flat surfaces using mounting screws or VESA mounted using the mounting plates designed for the NearField™ Antenna Series. Each antenna provides mounting holes, which are only visible on the rear side of the antenna.

These holes can be drilled through without damaging the product or interfering with the performance. For further assistance please go to our [mounting guide](#).

If drilling through the surface of the antenna is not an option, each antenna is provided with a self-adhesive rubber feet kit. These can be attached over the integrated mounting holes to stop the antenna from slipping.



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.

Order Information

When ordering A1163 NF antenna please quote the product code, band & part no.

Antenna Product Code	Band	Part No Black	Part No White
A1163	ETSI 865-867 MHz	72031	72033
A1163	FCC 902-928 MHz	72032	72034

When ordering cable accessories please quote the product code, cable type, & part no.

Antenna Product Code	Band / Model	Part No. Black	Part No. White
A1115	ETSI 865-867 MHz	72027	72029
A1115	FCC 902-928 MHz	72028	72030
A1130	ETSI 865-867 MHz	72022	72025
A1130	FCC 902-928 MHz	72023	72026

Cable Accessories Product Code	Cable Type	Part No. Black	Part No. White
Cable 2 m, SMA to RPTNC	T7 195 / 240 / 400	71436 / 71782 / 72042	N/A
Cable 4 m, SMA to RPTNC	T7 240 / 400	71784 / 72043	N/A
Cable 6 m, SMA to RPTNC	T7 240 / 400	71904 / 72044	N/A
Cable 8 m, SMA to RPTNC	T7 240 / 400	71788 / 72045	N/A

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.

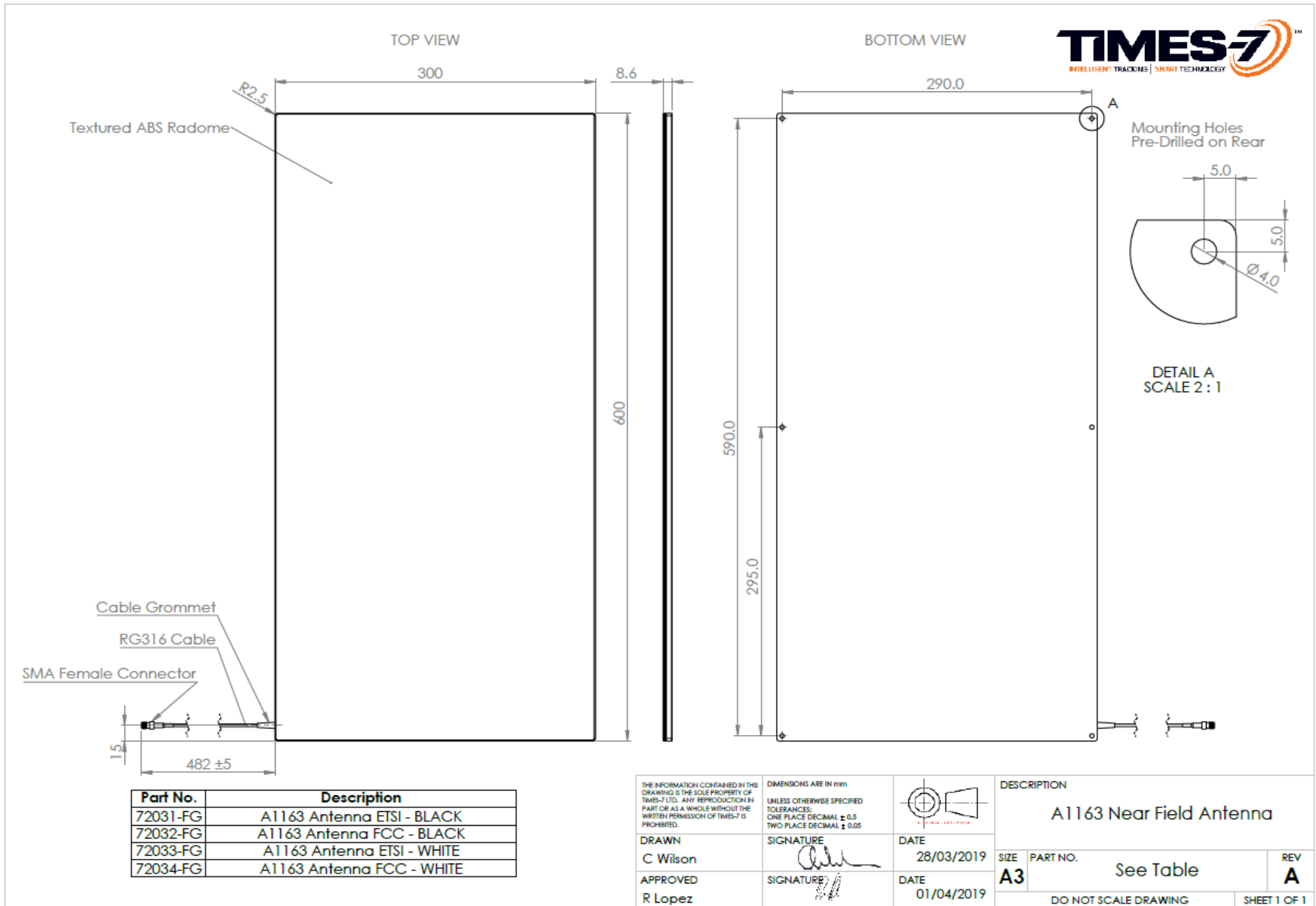
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Datasheet V1-09/21-5020MR

Mechanical Drawing for the A1163 Near Field Antenna



Part No.	Description
72031-FG	A1163 Antenna ETSI - BLACK
72032-FG	A1163 Antenna FCC - BLACK
72033-FG	A1163 Antenna ETSI - WHITE
72034-FG	A1163 Antenna FCC - WHITE

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DRAWN C Wilson		SIGNATURE 		DATE 28/03/2019		SIZE PART NO. REV A3 See Table A	
APPROVED R Lopez		SIGNATURE 		DATE 01/04/2019		DO NOT SCALE DRAWING SHEET 1 OF 1	

