

#### **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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(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 ultraconstrained 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

Band	Part Number	
ETSI 865-868 MHz	75248	
FCC 902-928 MHz	75250	
ETSI 865-868 MHz	75249	
FCC 902-928 MHz	75251	
Band	Part Number	
N/A	72095	
Cable Type	Part Number	
T7 195 / 240 / 400	71436 / 71782 / 72042	
T7 240 / 400	71784 / 72043	
T7 240 / 400	71904 / 72044	
T7 240 / 400	71788 / 72045	
	Band   ETSI 865-868 MHz   FCC 902-928 MHz   ETSI 865-868 MHz   FCC 902-928 MHz   Band   N/A   Cable Type   T7 195 / 240 / 400   T7 240 / 400   T7 240 / 400   T7 240 / 400	

\*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 x11.96 x 0.33"
Boxed Unit Dimensions:	620 x 335 x 30mm
(L x W x D)	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





## **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.



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.



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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