A1001
RAIN (UHF) RFID NEARFIELD ANTENNA

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.

Times-7 Research Ltd
10 Te Puni Street
Lower Hutt 5012
New Zealand

NEW ZEALAND
P: +64 4 974 6566

USA/CANADA
P: +1 408 769 5025

E: sales@times-7.com

www.times-7.com

The A1001 Near Field Antenna

Wideband near field UHF RFID antenna

82 mm / 3.2" square footprint

Read distance:
0 to 10 cm / 3.4 in.

Typical applications:
Access control & security, retail POS, libraries, & mass transit systems

Offering a breakthrough in size and performance the A1001 is a small, commercially available, wideband near field UHF RFID antenna.

Ideal for enclosed spaces and anywhere a small footprint is required, the A1001 Near Field / Short Range UHF antenna provides wideband reception and transmission of signals in the 864-928 MHz frequency range (ETSI & FCC bands inclusive).

The A1001 antenna offers impressive performance in a small footprint, greatly reducing stray tag-reads, and illustrates the advantage of near field / short range RFID in a truly cost-effective solution.

Order Information

(please quote both product code & part no.)

*Antenna Product Code	Band	Part No.
A1001	ETSI / FCC Wideband	71203
Cable Accessories Product Code	**Cable Type**	**Part No.**
Cable 2 m, SMA to RPTNC	T7 195 / 240 / 400	71436 / 71782 / 72042
Cable 4 m, SMA to RPTNC	T7 240 / 400	71784 / 72043
Cable 6 m, SMA to RPTNC	T7 240 / 400	71904 / 72044
Cable 8 m, SMA to RPTNC	T7 240 / 400	71788 / 72045

*Built in New Zealand. ROHS & CE compliant.

View the Times-7 Cable Accessory datasheet here

Specifications

Physical / Environmental Specifications

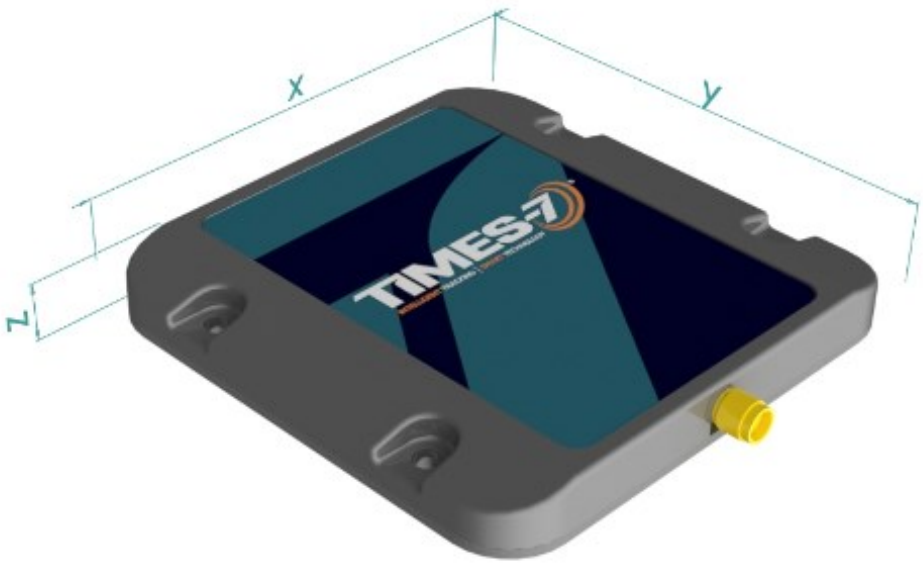
Dimensions unboxed: Length (x) x Width (y) x Depth (z)	82 mm x 82 mm x 9.6 mm 3.2" x 3.2" x 0.3"
Boxed unit dimensions: (L x W x D)	160 x 90 x 20 mm 6.3" x 3.5" x 0.8"
Weight	Net: 0.05 kg / 0.1 lbs. Gross: 0.06 kg / 0.12 lbs.
Casing:	Moulded ABS housing
Environmental Rating:	IP54
Operating / Storage Temperature:	0° to +50°C / -30° to +60°C +32° to +122°F / -22° to +140°F
Mounting:	Mounting holes (for position refer to drawing)
Connector type / position:	SMA Female / Centered

Electrical Specifications

Electrical Specifications

Frequency Range:	864 - 928 MHz (wideband)
VSWR:	1.4 typical
Nominal Impedance:	50 Ω
Maximum Input Power:	3 W
Antenna detection	10 K Ω resistance
Anti-static protection:	Yes, DC grounded

Azimuth Planes



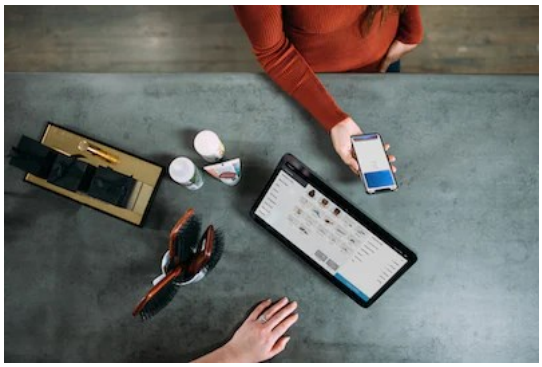
Application examples for A1001

Access Control & Security

Typically, RFID access control system can be used to create different levels of security. RFID readers/antennas can be placed outside of each building entrance point, as well as the entrances to secure rooms. Within the software, each RFID hardware point can be uniquely set with access permissions that correspond with a specific individual's RFID fobs or cards.

Retail POS

Some applications such as POV systems require near zone tag detection. The A1001 is specifically designed for these applications. The A1001's radiation intensity is highest at the antennas surface. 'Tap and go' type applications are possible with the A1001 antenna.



Mass Transit Systems

On public transport, RFID systems are used to swipe on and off tickets. Since the A1001 antenna has a small read range, it is perfect for these types of applications since the system is only able to read a single tag at a time.

GLOBAL SUPPORT

In addition to our world-class products and in-depth expertise, Times-7 is known for their quality of customer service and technical support. We place emphasis on our responsiveness in supporting a large global customer base and ensuring the success of our customer's implementations

Times-7 Research Ltd
10 Te Puni Street
LowerHutt
5012
New Zealand

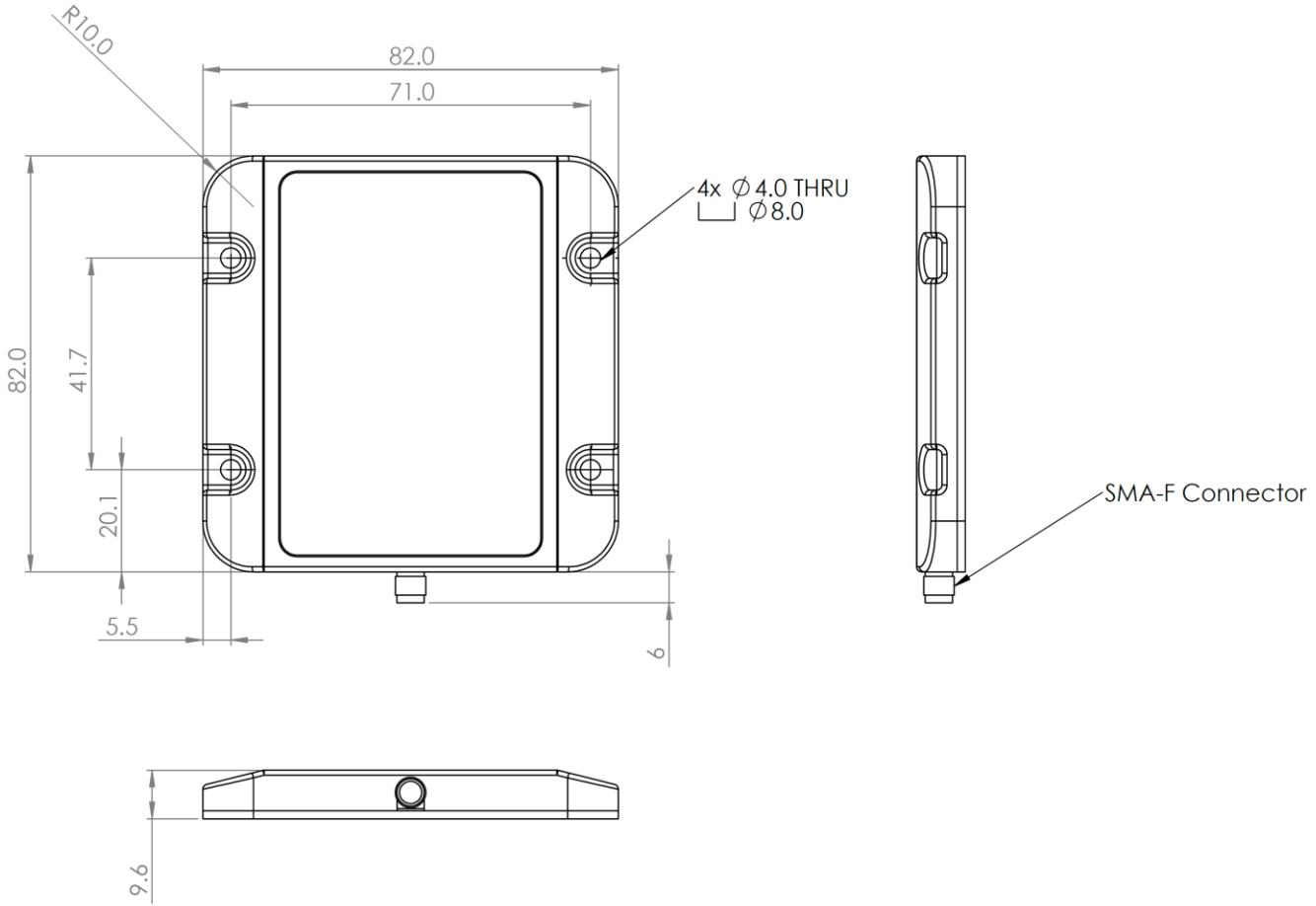
NEW ZEALAND
P: +64 4 974 6566

USA/CANADA
P: +1 408 769 5025

E: sales@times-7.com

www.times-7.com

Mechanical Drawing for the A1001



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 ± 0.5		DESCRIPTION: A1001 Near Field Antenna
DRAWN: C Wilson	SIGNATURE	DATE: 10/06/2019	SIZE: A3 / PART NO.: 71203 / REV: B
APPROVED: R Lopez	SIGNATURE	DATE: 11/06/2019	DO NOT SCALE DRAWING / SHEET 1 OF 2