Product Datasheet

A2010 Circularly Polarised Antenna

Times-7 is a high-tech company specialising in the design and manufacture of fixed RAIN 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, known for their SlimLine™ design, quality, and performance.

Our antennas cover:

- A wide variety of RF characteristics
- A range of sizes
- Leading temperature performance
- Range of IP ratings

If your deployment requires a specialisation that is not met by our standard portfolio, we can design and manufacture customised antennas to meet your needs.

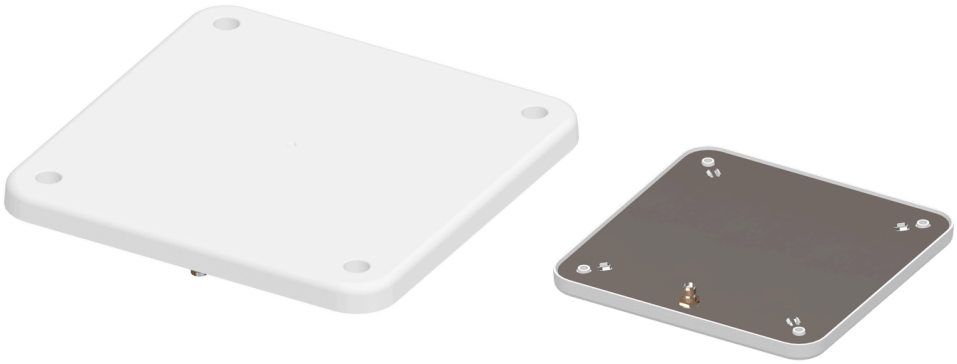
We are based in Lower Hutt, New Zealand, with a global reach as we export our products through our extensive authorised partner network.

In addition to our reliable, high quality RAIN RFID antennas, customers appreciate Times-7's customer service and in-depth technical support.

We are responsive in supporting a large global customer base and ensuring the success of our customers' RFID implementations.

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

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



A2010 rear view

The A2010 Circularly Polarised Antenna is a general-purpose indoor RAIN RFID antenna that suits a wide variety of applications, so one antenna can be standardised across read points from store entrances to conveyors and dispatch benches.

We built it for high-volume indoor deployments: 9 dBiC gain drives strong, consistent reads, and a symmetrical 65° beamwidth in both planes covers the read zone evenly, so tags read the same wherever they sit. RF performance and footprint match the proven A5010.

At 250 × 250 × 17 mm and 0.40 kg, the A2010 mounts flush or on standard 200 × 200 mm VESA brackets, and a rear RP-TNC jack keeps cabling out of sight. IP54, -20°C to +55°C (-4°F to +131°F). Ideal for store entrances, ward doorways, conveyors, dispatch benches and sort chutes.

ORDERING INFORMATION

Note:
Please quote part number, frequency range and cable type.

Antenna	Frequency Range	Part Number
A2010 (Single unit)	FCC 902-928 MHz	75655
A2010 (Single unit)	ETSI 865-868 MHz	75654
A2010 (Bulk pack- 20 units)	FCC 902-928 MHz	75784
A2010 (Bulk pack- 20 units)	ETSI 865-868 MHz	75783

Cable Accessories	Cable Type	Part number
Cable 2m, RP-TNC to RP-TNC	T7 195	75715

Additional cable lengths available on request.

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PHYSICAL / ENVIRONMENTAL SPECIFICATIONS

Antenna Dimensions (L x W x D) **Antenna weight**	250 x 250 x 17 mm (31.4 mm incl. connector) 9.84″ × 9.84″ × 0.67″ (1.24″ incl. connector) Net:0.4 kg / 0.9 lbs. Gross(Box of 1): 0.5 kg / 1.2 lbs.	
Boxed Unit Dimensions (L x W x D) **Box Weight**	Single unit 290 x 257 x 35 mm 11.42 x 10.12 x 1.38" 0.5kg / 1.1 lbs.	Bulk pack- 20 units 445 x 305 x 320 mm 17.9″ x 12″ x 12.5″ 19.3 kg / 42.6 lbs.
Radome Material	Flame-retardant and UV-resistant ABS	
Environmental Rating	IP54	
Operating and Storage Temperature	-20°C to +55°C /-4°F to +131°F	
Mounting	Accommodates 200 x 200 mm VESA M6 or 1/4" fasteners	
Connector Type	RP-TNC jack, rear exit	
RoHS & REACH Compliant	Yes	

ELECTRICAL SPECIFICATIONS

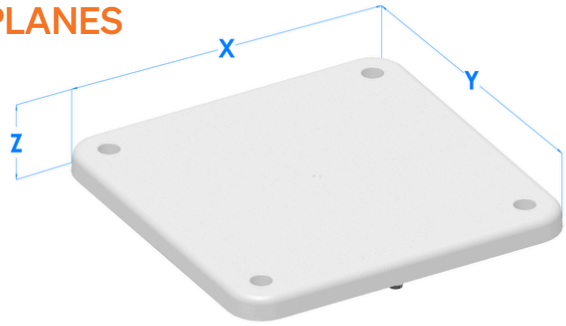
Frequency Range	865-868 MHz (ETSI) / 902-928 MHz (FCC)
Polarisation	Right hand circularly polarised
Far-Field Gain	9 dBiC typical
***Far-Field 3dB Beamwidth**	65° in both planes
VSWR	1.5 typical
Front-To-Back Ratio	-20 dB
Axial Ratio	2 dB typical
Nominal Impedance	50 Ω
Anti-Static Protection	Yes, DC grounded
Antenna Detection	50 Ω resistance
Maximum Input Power	3 W

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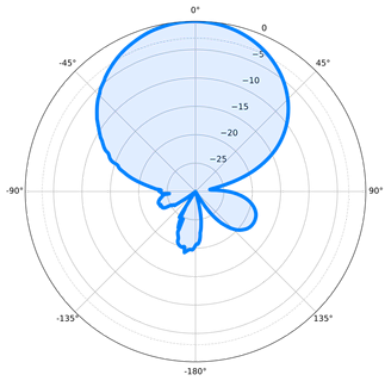
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A2010 Circularly Polarised Antenna

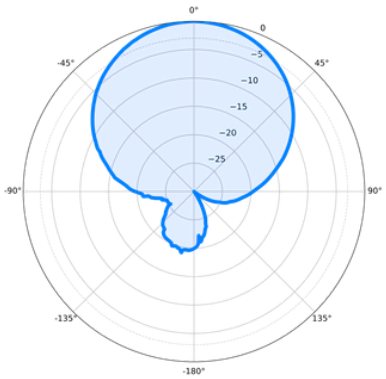
AZIMUTH PLANES



RADIATING PATTERNS



A2010 XZ Plane



A2010 YZ Plane

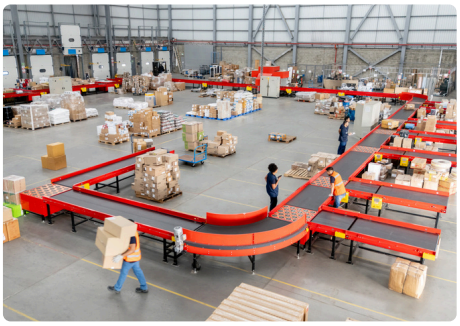
APPLICATIONS

Pick, pack and dispatch verification



Verifies tagged items during packing and dispatch, helping identify missing or incorrect items before orders are sealed. Its compact footprint and reliable read performance make it ideal for pack lines, dispatch benches and high throughput conveyor tunnels, while the rear-facing connector enables clean, unobtrusive cable management.

Distribution, sorting and shipment verification



Tagged cartons and pallets can be verified as they leave the factory or supplier site, maintaining accurate inventory data at every stage of the supply chain. The symmetrical 65° beam provides a well-defined read zone at dispatch points, supporting accurate shipment verification.

Doorway tracking



Tracks items moving through doorways. Circular polarisation supports reliable tag reads regardless of item or tag orientation, while the slim profile and concealed rear cabling enable a discreet installation in customer-facing areas.

For more antenna recommendations by applications, visit https://www.times-7.com/applications

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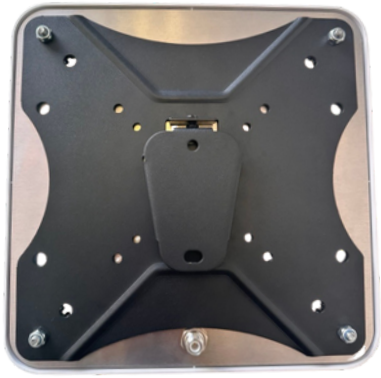
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MOUNTING AND INSTALLATION INSTRUCTIONS

The A2010 supports both flush mounting and VESA 200 mounting, providing flexibility across a range of installations.

- **VESA 200 mounting:** The recessed corner mounting holes are compatible with standard 200 × 200 mm VESA-spaced mounting brackets.
- **Flush mounting:** The A2010's slim profile and recessed corner holes allow it to be mounted directly to a suitable surface using screws or bolts.
- **Connector clearance:** Allow sufficient space behind the antenna for the rear connector and cable, ensuring easy access during installation.
- **Connector tightening**: Tighten the RP-TNC connector finger-tight only. Do not use tools, as excessive force may damage the connector.
- **Cable handling:** Avoid pulling or placing strain on the cable. Always maintain the recommended bend radius to prevent damage and ensure reliable performance.



A2010 Antenna
with VESA 200 bracket

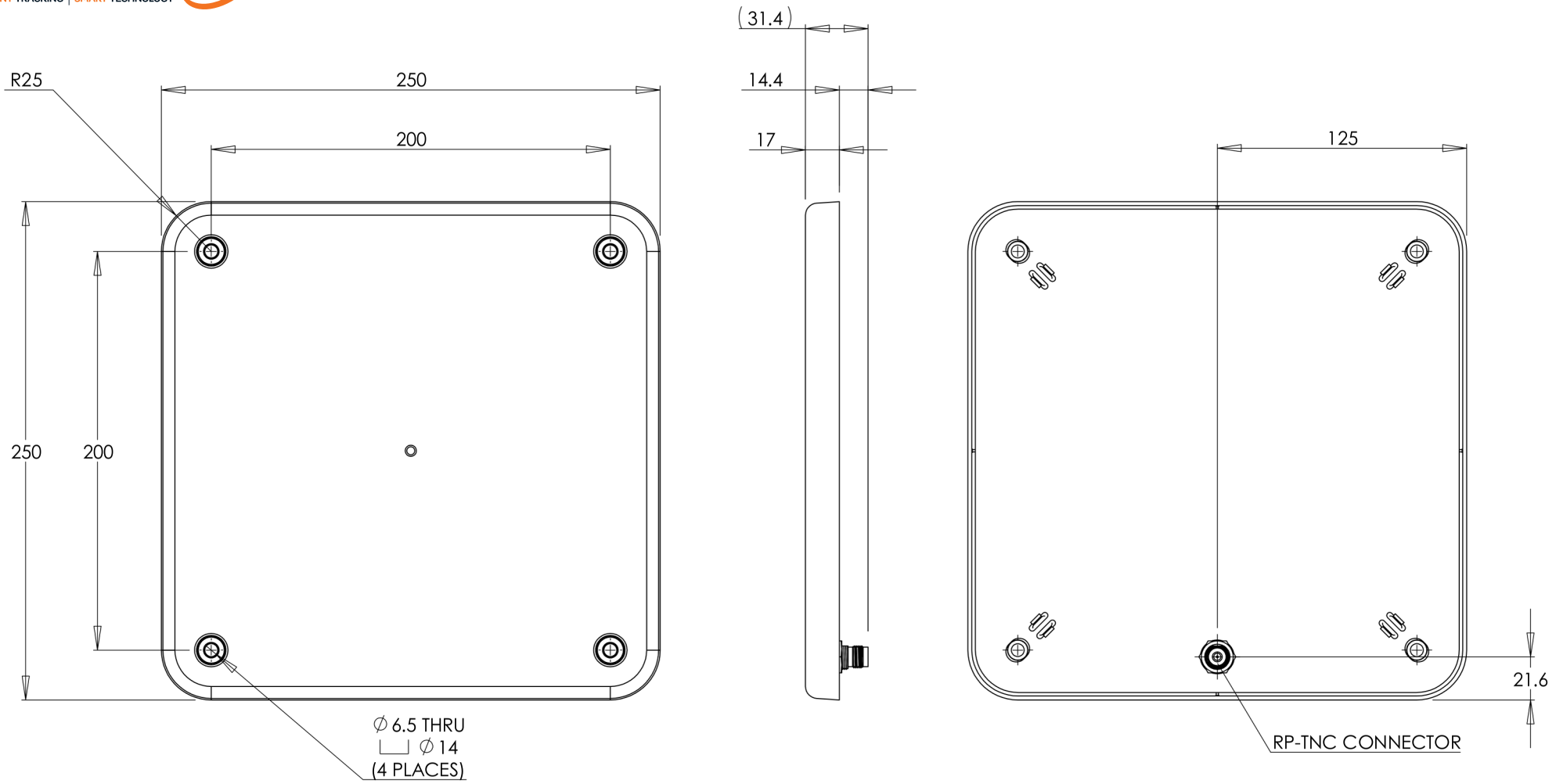
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MECHANICAL DRAWING FOR A2010 CIRCULARLY POLARISED ANTENNA



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DIMENSIONS ARE IN mm

UNLESS OTHERWISE SPECIFIED TOLERANCES:
NO DECIMAL PLACES ± 1
ONE PLACE DECIMAL ± 0.5

DRAWN BY: M. PRICE — DATE: 9-4-26

APPROVED BY: P. WILCOCK — DATE: 4-5-26

DESCRIPTION
A2010 CIRCULARLY POLARISED ANTENNA

SIZE A3 | PART NO. 75654 ETSI, 75655 FCC | REV A

DO NOT SCALE DRAWING

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