

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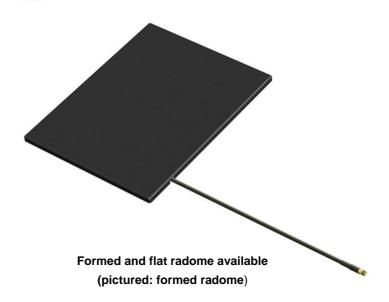
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Patent Info: www.times-7.com/patents



As a member of our versatile SlimLine antenna range, the B6031 Circularly Polarized antenna is an ultra-low profile flat panel antenna designed for UHF RFID applications in customer-facing or space-conscious environments.

Boasting a generous 4m (13ft) read range, the B6031 shares similar dimensions and weight to a Tablet PC, effortlessly integrating into any office or retail setting.

Order Information

Note: Please quote product code, band, cable type & part number

Antenna Product Code	Band	Part No.		
B6031	ETSI 865-868	75234		
	MHz			
B6031	FCC 902-928	75235		
	MHz			
Cable Accessories Product Code	Cable Type	Part No.		
Cable 2 m, SMA to RPTNC	LMR 195 / 240 /	71436 / 71782 /		
	400	72042		
Cable 4m, SMA to RPTNC	LMR 240 / 400	71784 / 72043		
Cable 6m, SMA to RPTNC	LMR 240 / 400	71904 / 72044		
Cable 8m, SMA to RPTNC	LMR 240 / 400	71788 / 72045		
Mounting Accessories	Band	Part No.		
Mounting Plate Product Code (A6031	ETSI and FCC	71631		
/ B6031)				

View the Times-7 Cable Accessory datasheet here



Physical and Environmental Specifications

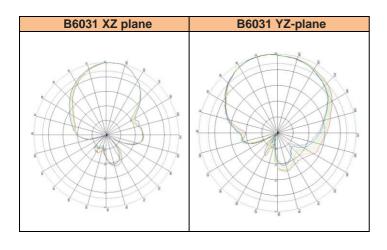
Unboxed Dimensions:	279 x 218 x 8.3mm	
*Length (x) x Width (y) x Depth (z)	10.9 x 8.6 x 0.32 "	
Boxed Unit Dimensions:	295 x 255 x 25mm	
(L x W x D)	11.6 x 10 x 1"	
Net Weight:	0.5kg / 1.1lbs	
Gross Weight	0.65kg / 1.4lbs	
Radome Material:	Fire retardant ABS	
Environmental Rating:	IP54	
Operating / Storage Temperature:	-20° to +55°C / -30° to +65°C	
	-4° to +131°F / -22° to +149°F	
Mounting:	Integrated mounting holes / Universal mounting	
	brackets for rack (VESA) mounting are available	
Connector Cable type / position:	SMA female 195 side fly lead (300mm / 1ft.)	

Electrical Specifications

Frequency Range (ETSI/FCC):	865 – 868 MHz / 902 – 928 MHz	
Polarization:	RHCP (Right Hand Circular Polarized)	
Far-field Gain:	5dBiC typical	
Far-field 3 dB beamwidth:	60° xz-plane, 80° yz-plane	
VSWR:	1.4 typical	
Front to back ratio:	-15dB	
Axial ratio:	2dB typical	
Nominal Impedance:	50Ω	
Anti-static protection:	Yes, DC grounded	
Antenna Detection:	10K Ω resistance	
Maximum Input Power:	3W	

^{*}Far-field 3dB beam width in xz-plane is always along the longer side (L) of the antenna.

Radiation Pattern





Mounting Information

Mounting Plate

The Times-7 Mounting Plate for the B6031 is designed to support VESA brackets. For exact dimension, please refer to the mechanical drawings on page 4. For instructions on how to attach the bracket to the antenna please click here.

Flush Mounting

The B6031 has 4 pre-drilled mounting holes on the rear side of the antenna, which can be drilled through without damaging the antenna. For the exact position please refer to the mechanical drawing on page 3. For further instructions please click here.

Installation Instructions

Ensure that only a firm finger tightness is used for the SMA connector. Use of tools to tighten the connector will apply excess force and likely damage the connector.

Applications

Retail inventory management

The B6031 is a rugged antenna meaning it is ideal for asset tracking and encoding RFID tags. This antenna has a typical read range distance of 4m allowing manufacturers, wholesalers and retailers, for example, to track their inventory throughout the supply chain.



Office asset tracking

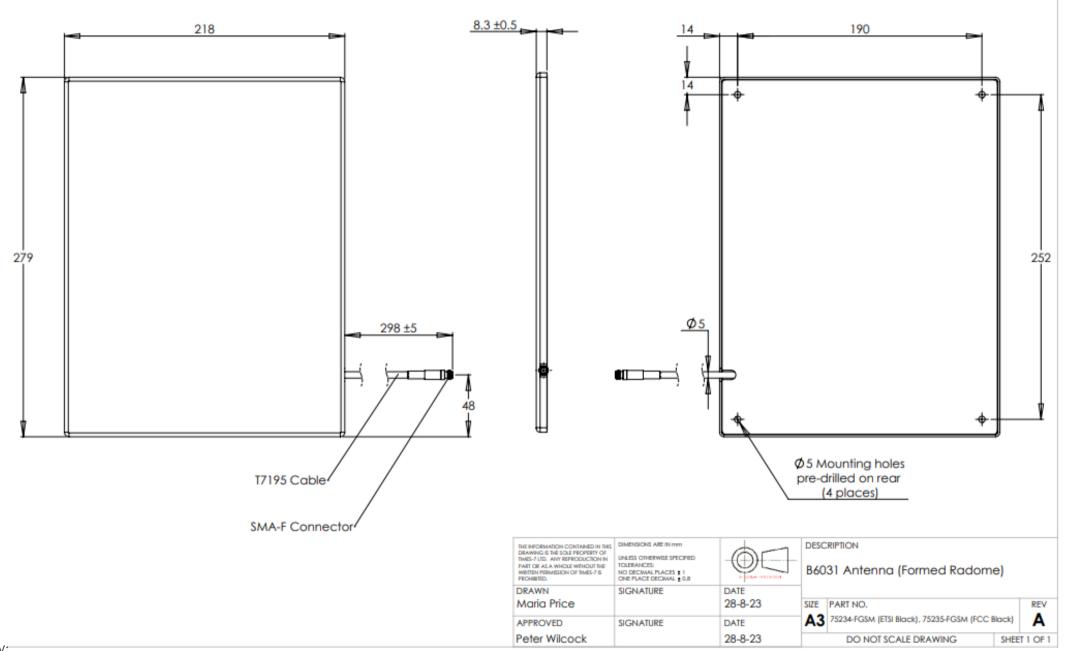
Unlock significant time savings by automating the receipt, tracking, and storage of office asset inventory. The B6031 empowers you to efficiently manage inventory across multiple locations and seamlessly transfer stock to meet your needs.



The technical data contained in this publication is not a guarantee for which Times-7 Research Ltd assumes legal accountability. It is indicative of typical performance, and if required should be relied on for specific applications only after due verification.

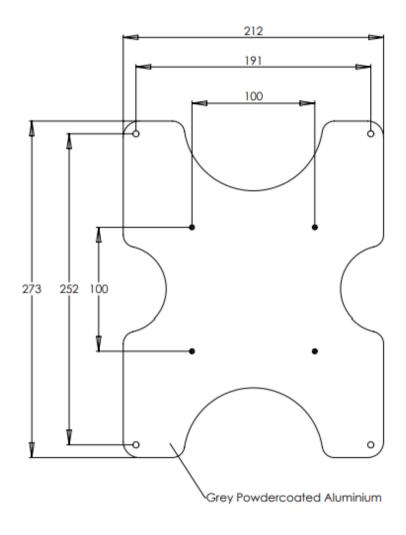
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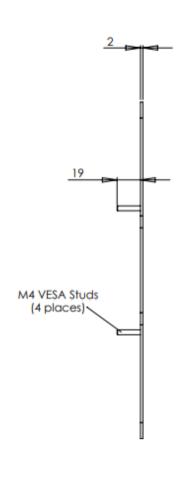




Mechanical Drawing for the B6031 Circularly Polarized Antenna Mounting Plate







THE INFORMATION CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF THATS 7 LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMASSION OF TIMES 7 IS PROMINTED.	DIMENSIONS ARE IN IMM UNLESS OTHERWISE SPECIFIED TOLERANCES: NO DECIMAL PLACES # 1 ONE PLACE DECIMAL # 0.8	- 10ad - 113 00 30 4	A6031 / B6031 Mounting Bracket			
Maria Price	SIGNATURE	DATE 28-8-23	SIZE	PART NO.		REV
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