### R9028-LP

American Made UHF RFID Antennas
Part of our Patriot Series Antennas

Made in the USA











**R9028-LPF-SSF** with four mounting corners

# RFMAX

The R9028-LP Series Antennas from RFMAX Patriot Series are the newest low-profile, flush or VESA mounted, circularly polarized panel antennas for UHF RFID. The mounting profile of these antennas are smaller and more aesthetically pleasing than any other RFID antenna on the market today. These antennas were specifically designed by RFID professionals - for RFID professionals. The RFMAX engineers worked to design-in the very best UHF RFID performance in the smallest possible package. We are proud to announce that all R9028 antennas are manufactured in the USA.

#### Features:

- High Impact, IP67 Rated construction to withstand industrial applications and outdoor environments
- Low-profile, aesthetically pleasing for use in any professional/office environment
- Superior RF performance with excellent coverage area, both indoor and outdoor
- Flush or articulating mounting models
- Fully compliant for US government contracts
- Industry's best warranty 5 years
- Designed and built in the USA!

SKU	Frequency	Connector Type	Mount	Connectors
R9028-LPV-SSF	902-928 MHz	Fixed Connector	4-Stud 100mm VESA	SMA-Female
R9028-LPF-SSF	902-928 MHz	Fixed Connector	Flush Four Corner Holes	SMA-Female



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#### **Electrical Specifications**

Frequency [MHz]	902-928 MHz		
Gain	8.5 dBic		
Axial Ratio	1.4 Typical / 2.0 Max		
VSWR	< 1.2:1		
Input Impedance	50 Ohm		
Polarization	RHCP - Circular		
D. a. a. a. a. i. d. b.	Vertical/Elevation	n 68°	
Beamwidth	Horizontal/Azimuth	68 °	

#### SMA-Female

Low Profile R9028





#### **Environmental Specifications**

Operating Temperature [°C]	-20 to +55
Storage Temperature [°C]	-30 to +65
Relative Humidity MIL- STD810G, method [°C]	85
Environmental Rating	IP67

#### **Mechanical Specifications**

Color	White	
Weight [lbs/g]	1.6 /750	
Length and Width [in/mm]	9.85 x 9.85 / 250 x 250	
Thickness [in/mm]	0.55 / 14	
Mounting	Flush or 100mm VESA	
Connector Type and Position	SMA-Female Side Connector	
Radome Material	UV-Resistant ABS	

#### **Recommended Accessories:**

SKU	Descriptions
	Heavy Duty 100mm VESA mount
HDMNT-100MM	
	Easy to position bracket with 100mm VESA pattern
EZ-M6-Combo	
PT240-xxx-RTM-SSM	High quality, low loss cable



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SKU	Pictures	Information
R9028-LPV-SSF (600031)	REMAX	FCC. IP67 RHCP RFID Antenna. 902-928 MHz / FCC. 8.5 dBic gain. BW= 68 deg. H&V. Size: 9.85 x 9.85 x .55 in. with side entry SMA-F
R9028-LPF-SSF (600011)	RF/AÂX	FCC. IP67 RHCP RFID Antenna. 902-928 MHz / FCC. 8.5 dBic gain. BW= 68 deg. H&V. Size: 9.85 x 9.85 x .55 in. with side entry SMA-F
HDMNT-100MM		RFMAX - Die Cast Heavy Duty Wall/Mast Mount For RFMAX 12 X 12 In. Antennas Or Any Device With 100mm VESA
EZ-M6-Combo	Fio	Articulating Wall/Mast Combo Mounting Kit. Black Metallic E-Z Mount Kit. 6 Inch Arm 2 Or 4 Stud Antennas
PT240-XXX-RTM-SSM	SMA-Male RP TNC-Male	Pigtail: 50 Ohm (Black) LMR240 Type Coaxial Cable. With Reverse Polarity TNC Male And Standard SMA Male Connectors



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### **Environmental Tests**

Test	Standard	Duration	Temperature	Notes
Low	IEC 68-2-1	72 Hours	-55° C	
Temperature				
Thermal Shock		1 Hour	-45 / 70° C	3 Cycles
Humidity		72 Hours	85° C RH	
Dust	IEC 60529	8 Hours		With vacuum
Resistance				
Solar Radiation		4 Days		340 nm
Impact				1 lb ball drop at
Resistance				24"
Salt Fog	Mil-Std-810G	24 Hours in-24		2 cycles
		Hours out		
Vibration	Mil-Std-810G	1 Hour X 3 axes		10-500Hx, 1.04
Vehicle				Grms
Shock-Half Sine	Mil-Std-810G			10G/11ms, 5
				shocks X 6
				directions
Shock-Drop	Mil-Std-810G			26 drops at 48"
High Temp		24 Hours each		60C, 65C, 70C,
Storage		temp		80C, 85C,
				90C & 95C

