

# 9XCite™ OEM RF Module

900 MHz - Low Power - Low Cost OEM RF Modules by MaxStream, Inc.

## Long Range Performance

Indoor/urban Range:	up to 300' (90 m)
Outdoor line-of-sight Range:	up to 1000 ft. (300 m) w/ 2.1 dB dipole antenna
Receiver Sensitivity:	-108 dBm (@9600 bps)
Throughput Data Rate:	9,600 or 38,400 bps



## Low Power

Transmit Current:	55 mA
Receive Current:	35 mA
Power-down Current:	20 µA

**RS-232/485 & USB  
interface packages available**

## Easy-to-Use

No configuration or tweaking is necessary for out-of-box RF operation. Simply feed data into one module, then the data is sent out the other end of the wireless link.

If more advanced functionality is needed, the modules support an extensive set of commands.

*"Instant Gratification..."*

*The radios worked perfectly together right out of the box."*

*- Fred Eady*

*Circuit Cellar "Radio Roundup"*

*In describing the out-of-box experience*

*he gathered from the MaxStream Development Kit.*

## Key Features



### Price-to-Performance Value.

Due to innovations stamped in its design, the 9XCite Module yields 2-8x the range of competing modules. This allows OEMs and integrators to cover more ground with fewer devices. Additionally, 9XCite Modules are easy-to-use and therefore greatly reduce the cost of data system development.



### Receiver Sensitivity.

MaxStream modules 'hear' what others cannot; therefore supplying greater range and reliability in wireless links. For every 6 dBm gained in TX power or RX sensitivity, OEMs and integrators can double the range of a wireless link. 9XCite Modules outperform higher costing modules due in large part to range gained through superior RX sensitivity.



### Low Power Consumption.

For power-sensitive applications; Pin, Serial Port and Cyclic Sleep Modes are available. Power-down currents reach below 20 µA.



### FCC (U.S.A) & IC (Canada) Approved.

Systems that contain XCite Modules inherit MaxStream's certifications. Contact MaxStream for a complete list of government agency approvals.

## Sample Applications

Sensor data capture  
in embedded systems



Barcode scanning  
& point-of-sale Systems



Home automation &  
building control



SCADA (Supervisory control  
& data acquisition)



Fleet management  
& asset tracking



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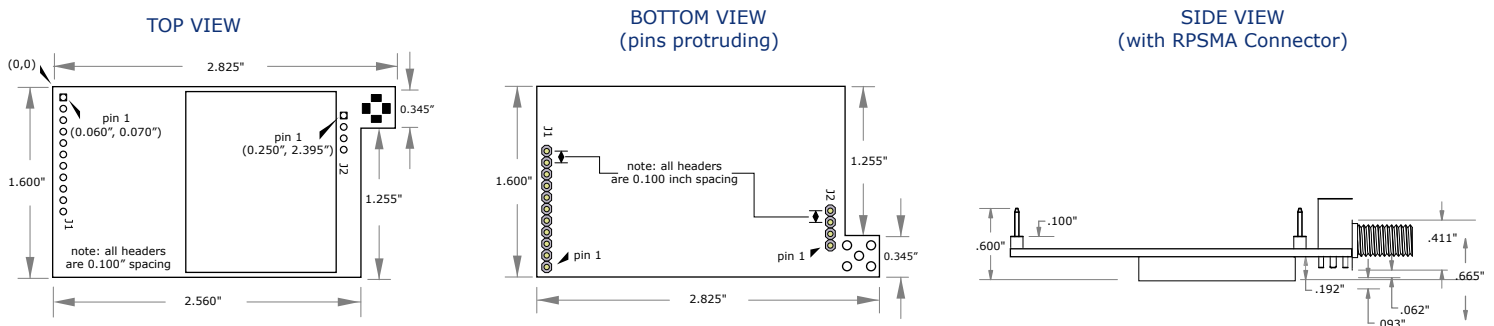
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# 9XCite™ 900 MHz OEM RF Modules

Specifications		9XCite (900 MHz)	
<b>Performance</b>	Indoor/Urban Range (w/ 2.1 dB dipole antenna)	up to 300 ft. (90 m)	
	Outdoor RF line-of-sight Range (w/ 2.1 dB dipole antenna)	up to 1000 ft. (300 m)	
	Transmit Power Output	4 mW (6 dBm)	
	Interface Data Rate (software selectable)	1200 - 57600 bps	
	Throughput Data Rate	9,600 bps	38,400 bps
	RF Data Rate	10,000 bps	41,666 bps
	Receiver Sensitivity	-108 dBm	-104 dBm
<b>Power Requirements</b>	Supply Voltage	2.85 - 5.50 VDC	
	Transmit Current	55 mA	
	Receive Current	35 mA	
	Power Down Current	< 20 µA	
<b>General</b>	Dimensions	1.600" x 2.825" x 0.350" (4.06 cm x 7.18 cm x 0.89 cm)	
	Weight	0.8 oz. (24 g)	
	Operating Temperature	0 - 70 C° (commercial)	
	Antenna Options	RPSMA or Wire Antenna	
<b>Networking and Security</b>	Operating Frequency	ISM 902 - 928 MHz	
	Supported Network Topologies	Peer-to-Peer (no master/slave dependencies), Point-to-Point, Point-to-Multipoint, Multidrop	
	Number of Channels (software selectable)	7 frequency hopping channels (Hopping Mode) & 25 single frequency channels (Single Channel Mode)	
	Network Filtration Layers	VID, Channel, Destination Address	
<b>Certifications (partial list)</b>	FCC Part 15.247	OUR-9XCITE	
	Industry Canada (IC)	4214A-9XCITE	

Specifications are subject to change without notice.

## Mechanical Drawings



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