

CSR100

Receiver Module

Cospas-Sarsat Receiver Module

406 MHz high gain receiver module for OEM applications.

The CSR100 is a self-contained, high gain, 406 MHz receiver module specifically designed to receive all Cospas-Sarsat emergency beacon signals. This module is perfect for integrating into your own system.

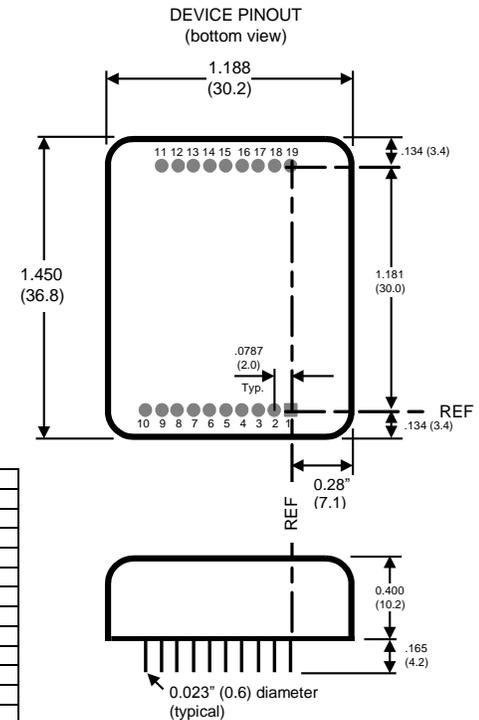
Features include:

- very compact, fully encapsulated module
- high gain receiver -125 dBm sensitivity!
- software adjustable receiver sensitivity level
- monitors entire 406.0 – 406.1 MHz Cospas-Sarsat band
- easily integrated into OEM system
- API command set for module setup and management
- 406 MHz burst in → data out (demodulated message data, self test or normal mode flag, beacon transmit frequency, beacon signal strength, receiver module information)
- internal data logging – time and position stamping when GPS is interfaced
- excellent out-of-band rejection – prevents interference against nearby transmitters

Specification			
FUNCTION	Min	Typ	max
Voltage Supply	3.2V	3.3V	3.4V
Current Consumption		160 mA	180 mA
Current at Shutdown		175 uA	
Operating Temperature	-40°C		+85°C
Storage Temperature	-55°C		+105°C
RF Input VSWR			1:1.12 (25 dB)
Data Interface	TTL level: 0V – 3V Baud Rate: 115,200 bps Output Message: XML, ASCII, Binary (optional)		
Dimensions –inches (mm)	1.450 (36.8) x 1.188 (30.2) x 0.400 (4.2)		
Weight	0.78 oz, 22 g		
Approvals	CE, FCC, Industry Canada		



PIN	NAME	DESCRIPTION
1	GND	Ground
2	PPS	Pulse per second
3	RX1	GPS serial data in
4	TX1	GPS serial data out
5	TX2	Serial data out
6	RX2	Serial data in
7	RESET	Master Reset
8	GND	Ground
9	RF IN	406 MHz RF IN (50Ω)
10	GND	Ground
11	GND	Ground
12	PWR	+3.3V IN
13	EN	Module Enable
14	LED	LED – active low
15	GPIO1	General Purpose IO
16	GPIO2	General Purpose IO
17	GPIO3	General Purpose IO
18	OSC OUT	Oscillator output
19	GND	Ground



ALL DIMENSIONS IN INCHES (MM)

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WS Technologies Inc. is an ISO 9001 Certified company

Patents pending



PRELIMINARY

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