

# Xtreme-Radiator

## Extended Range Indoor GPS Re-radiating System



### Features

- Re-radiating distance of approximately 30m
- Independent power source
- Multiple users can share one signal
- Re-transmits GPS signals to an otherwise unreachable location

The Xtreme-Radiator is an enhanced version of our best-selling Super-Radiator with a wider re-radiating range of 30 meters. This excellent GPS L1 band signal re-radiating antenna features dual antennas to re-transmit real-time GPS satellite outdoor receptions to an indoor environment. Designed to operate as a whole, the system kits are composed of a highly sensitive external GPS antenna, precisely calibrated amplifier circuit with Helix type indoor re-radiating antenna and a built-in power supply regulator. The Helix type indoor antenna system allows multiple GPS receiver users to perform on-the-fly normal receiver operation within a closed environment, while the main GPS antenna is installed on an unmanned location outdoors.

**Warning:** Be sure the re-radiating antenna does not have a line of sight to the GPS antenna as this can cause a feedback loop.

### External Antenna Specifications

T <sub>A</sub> :	25°C
Frequency:	L1 band 1.575GHz
Bandwidth:	50MHz
Noise Figure:	1.3dB
Output SWR:	2.0:1
DC Input:	4.5V to 5.5V DC

### Re-Radiating Antenna Specifications

T <sub>A</sub> :	25°C
Frequency:	L1 Band 1.575GHz
Bandwidth:	20MHz
Impedance:	50ohm
Noise Figure:	2.0dB
Output SWR:	1.6:1
Element:	Helix type
Polarization:	RHCP
RF Out - at	
1dB Gain Compression:	-2.0dBm
DC Input:	6V to 30V DC
Power Consumption:	55mA
Re-Radiating Distance:	~30m

### Ordering Information

#### Part Number

■ Xtreme-Radiator

#### Description

■ Extended Range Indoor GPS Re-radiating System

### Prairie Geomatics Ltd.

PO Box 141/5Bison Hills Road, Minnedosa MB R0J 1E0 Canada

Tel: 204-867-5725 1-888-444-0302 Fax: 204-867-5722 [www.gpszone.ca](http://www.gpszone.ca)