

# GPS Indoor Window Mount Antenna

## MODEL 8228

- Easy installation
- Mounting bracket included
- Ideal for locations where roof access is not readily available
- Small and unobtrusive to window view

The Model 8228 GPS Indoor Window Mount Antenna is an active antenna tuned to receive GPS 1575.42 MHz L1 band satellite broadcasts. Received signals are passed through a narrow bandpass filter and a preamplifier within the antenna. The active antenna circuitry provides 27 dB of gain and requires +5 VDC at 20 milliamps. The GPS receiver provides power over the antenna coax. The 8228 antenna is terminated with an SMA male connector, includes a 50-foot interconnecting coaxial cable, and is affixed to a window using the supplied mounting bracket.

### Antenna Installation

The Model 8228 GPS Indoor Window Mount Antenna is not rated for outdoor use and may be installed on the inside of a window only. Select a window with the best possible (most unobstructed) view of the sky available. Avoid installing the antenna on windows completely or partially obstructed by nearby trees, tall shrubs, or other obstacles that can block the antenna's "view" of the sky.

Installing the antenna behind metal screens or blinds may reduce signal reception. Metallic window coatings, shadings, and other films also may reduce reception quality. Do not install the antenna on windows with these coatings.

Spectracom recommends selecting a window no farther from the receiver than can be reached using the supplied 50-foot coaxial cable. In some installations, however, the use of lower-loss cable or the addition of an inline amplifier may be necessary for proper operation. Contact Spectracom Technical Support for recommendations.

### Ordering Information

GPS Indoor Window Mount Antenna, Model 8228, includes 50-foot cable.

Specify part number 8228-0001-0600 (NetClock® Models 8184, 8189, and 8190—receivers with SMA antenna jacks) or 8228-0002-0600 (NetClock® 8183, 9100, 9200, and 9300 series—receivers with Type N antenna connectors).



### Electrical Specifications

**Type:** Active  
**Frequency:** 1575.42 MHz  
**Temperature range:** -40° to 194°F (-40° to 90°C)  
**Gain:** 27 dB  
**Connector:** SMA, male  
**Maximum cable length:** 50 feet (15 m)  
**Power:** 5 Volts, 20 milliamps, powered by receiver

### Mechanical Specifications

**Size:** 2.0 L x 1.7 W x 7 H inches (50 L x 43 W x 18 H mm)  
**Assembled weight:** 1.4 oz (40 grams), less cable  
**Shipping weight:** 3 lbs.  
**Mounting:** Window bracket is secured using double-sided adhesive foam tape

