

SPS585 GNSS SMART ANTENNA QUICK REFERENCE CARD

2. Connect using the default WEP64 encryption key **abcdeabcde**.
3. Open a web browser on your Wi-Fi enabled device and enter *GNSS* into the address bar.

Note: With some devices, you may need to enter either *http://GNSS*, or *192.168.142.1* to access the web interface.

4. Log in to the web interface. Select *Security / Login*. The default username is **admin**. The default password is **password**. Use the Help links on the web browser interface for further detailed information.

High Precision positioning

The Trimble CenterPoint® RTX™ service is a high-accuracy, low convergence-time Precise Point Positioning (PPP) service that provides real-time high precision positioning without the need for an RTK base station or VRS™ network. GNSS corrections are delivered over the air using L-band satellites. Once subscribed, the SPS585 GNSS Smart Antenna delivers 10 cm precise positions to your Trimble applications. For more information, contact your SITECH or Trimble authorized dealer.

xFill technology

Trimble xFill™ uses Trimble RTX technology, delivered via satellite, to "fill in" for RTK corrections in the event of temporary correction outages. The xFill technology maintains the RTK 10 cm accuracy for five minutes after the loss of RTK corrections. Trimble xFill capability is factory installed on the SPS585 GNSS Smart Antenna.

Safety Warnings

⚠ WARNING! The magnetic mount option for this device must not be used on vehicles while they are being driven on public roads and highways due to the possible risk of personal injury or property damage should the unit become detached. Use the permanent exterior mounting options or secure the unit inside the vehicle if driving on public roads and highways.

Product Limited Warranty Information

For applicable product Limited Warranty information, please refer to the Limited Warranty Card included with this Trimble product, or consult your local SITECH or Trimble authorized dealer.

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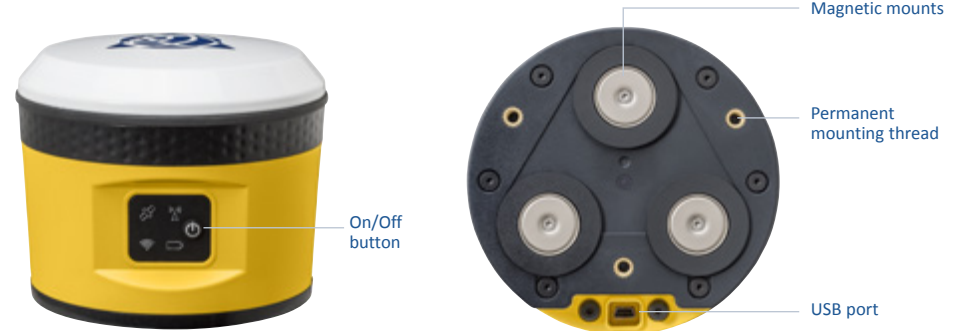
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Parts of this product are patent protected. Trimble has relied on representations made by its suppliers in certifying this product as RoHS compliant. Specifications subject to change without notice. Trimble Navigation Limited is not responsible for the operation or failure of operation of GNSS satellites or the availability of GNSS satellite signals.



P/N 100695-ENG Rev B



Items in the kit

Part number	Description	Part number	Description
100071-00	SPS585 GNSS Smart Antenna	100072-00	Cable – 3 m power/data, USB-A, USB-B mini
100690	Adapter – AC to USB-A socket	100691	AC international adapter kit
100693	Adapter – Cigarette lighter (12-24 VDC) to USB-A socket	100695	Quick Reference Card

Additional accessories

The following additional accessories can be purchased through your SITECH® or Trimble® Dealer.

Part number	Description	Part number	Description
102798-00	Bracket – Pole top mount, SPS585	102799-00	Bracket – Vehicle mount, SPS585
102800-00	Carry case – Equipment case for SPS585 receiver and accessories		

Upgrades and services

The following upgrades and services can be purchased through your SITECH or Trimble Authorized Dealer.

Part number	Description
100731	Construction Site CenterPoint RTX Std 1 Year via Satellite
100732	Construction Site CenterPoint RTX Std 1 Month via Satellite



Lithium-ion battery

The rechargeable Lithium-ion batteries are supplied partially charged. Charge the battery completely for 12 hours before using the device for the first time. If the SP5585 GNSS Smart Antenna has been stored for longer than three months, charge it before use.

⚠ WARNING: Charge and use the rechargeable Lithium-ion battery only in strict accordance with the instructions. To prevent injury or damage:

- Discontinue charging a battery that gives off extreme heat or a burning odor.
- Never attempt to remove, replace, or repair the battery yourself.
- If the battery requires attention, send the receiver to an authorized Trimble Service Center.

The charge time is 3 hours when the product is running or turned off. For the best charging performance, use the Trimble provided cable and charger. The internal battery charger stops charging when the internal temperature of the receiver is greater than 50 °C (122 °F) or less than 5 °C (41 °F).

Keypad

To turn on the SP5585 GNSS Smart Antenna, hold the **On/Off** button down for 2 seconds until the Positioning icon flashes and then release the button.


To turn off the SP5585 GNSS Smart Antenna, hold the **On/Off** button down until the Positioning icon turns off and then release the button.





To reset the SP5585 GNSS Smart Antenna to factory default settings, hold the **On/Off** button down until only the battery icon is illuminated. Continue to hold the button down until the Positioning icon flashes (about 15 seconds) and then release immediately.

LED Functions

The general rules to interpret the LED flash patterns are as follows:

- Solid. Indicates you are getting what you want and it is okay to do a positioning task.
- Slow flash. Indicates an intermediary condition, the mode is ready, or you have to wait until something improves.
- Fast flash. Indicates an error condition and you need to take action to fix it.

Item	Description	
	Wireless communications icon Note: On this dual-color LED, blue represents Bluetooth® technology and amber represents Wi-Fi. If both types of wireless communications are active, the LED alternates every 15 seconds.	
	Off	Bluetooth is not discoverable or the Wi-Fi client is not connected.
	Solid Blue	Bluetooth is connected to an external device (any of the three available ports).
	Solid amber	Wi-Fi in Access Point (AP) mode and an external Wi-Fi client device is connected. Wi-Fi in Client mode and connected to an external Access Point (AP).
	Slow Flash Blue	Bluetooth is discoverable but not connected.
	Slow Flash Amber	Wi-Fi Access Point (AP) mode is available but no Wi-Fi Client device is connected.
	Very Slow Flash Amber	Wi-Fi Client mode is on but not connected to a Wi-Fi AP.

Item	Description	
	Positioning icon	
	Off	Fewer than 4 SVs are being tracked.
	Solid	Positioning at the specified precision (user-defined H and V tolerance).
	Slow Flash	Computed position is below the specified precision.
	Fast Flash	Tracking 4 or more SVs but not computing a position.
	Corrections icon	
	Off	No corrections detected on any incoming port.
	Solid	Corrections are being used for positioning.
	Slow Flash	xFill is <i>in use</i> for positioning.
Battery icon		
	Solid	Good battery condition and not charging
	Slow Flash	Fast charging, 10 W input (for example, using cable and charger supplied in the kit).
	Very Slow Flash	Slow charging, less than 10 W input (for example, connected to tablet).
	Fast Flash	Low battery (less than 15% remaining).
Positioning, corrections, and battery icons together		
	Slow Flash	Firmware expired.
	Very Slow Flash	If this problem persists, contact Trimble Support.
	Very Fast for 30 sec then Off	Contact Trimble Support.
	Solid	File system formatting.

Connecting to a Bluetooth device

By default, the SP5585 GNSS Smart Antenna is *Discoverable* and will be listed on your Bluetooth capable device when you scan for nearby Bluetooth devices. The default Bluetooth device name will be in the format **SP5585, <Serial number>**: **<System Name>**, for example, SP5585, 5436R00074: My System

On a device running the Windows® 7 operating system, the SP5585 GNSS Smart Antenna will appear as a *Network Infrastructure Device* with an *Access Point* connection. When connected using the *Access Point*, the smart antenna can be accessed using a web browser on the default IP 192.168.143.1. Select *Security / Login*. The default username is **admin**. The default password is **password**.

Connecting to a Wi-Fi device

By default, the device is configured as an *Access Point* so you can connect to it using any Wi-Fi capable device with a standard web browser:

1. On a Wi-Fi enabled device search for the SP5585 SSID. This is in the format **Trimble GNSS 1234** where 1234 is the last 4 digits of the serial number.