

Stanley Healthcare TAG1200 Module Data Sheet

Small Form Factor Module that includes Wi-Fi Communication – For OEM Installation only

Overview

The integration tag is designed for OEM only technology partners who wish to embed Stanley Healthcare location technology into their products.

Key Features**Compact Form Factor**

The TAG1200 module Tag is designed for OEM applications that require assets location. The module is based on the smallest asset tag of the Stanley Healthcare Tag family and it includes additional mounting screws, enabling it to be easily embedded into other product enclosures.

Wi-Fi Compatibility

Stanley Healthcare Tags are 802.11b/g/n compatible working on the 2.4GHz band. The tag's clear channel sensing techniques avoid interference with Wi-Fi networks. The tag supports Stanley Healthcare IBSS and Cisco CCX Location beaconing protocols.

The TAG1200 module support Wi-Fi Bi-directional communication to allow Over-the-Air firmware and configuration upgrade using the Stanley Healthcare Mobile View application.

Choke-Point Detection Capabilities

Using the Stanley Healthcare Exciter, distinct tag presence can be automatically detected and behavior can be modified as the tag passes through a choke point, such as a doorway or gate. This includes turning tags on/off, or changing tag transmission rates. In addition, choke points enable precise real-time alerts, through the Stanley Healthcare MobileView software.

Ultrasound Receiver

The TAG1200 module is equipped with an ultrasound receiver that picks up the ultrasound transmissions from EX4100 and EX4200 Ultrasound Exciters. The tag transmits the Exciter ID to the Stanley Healthcare software via the Wi-Fi network. Using the ultrasound communication the Stanley Healthcare system can achieve room level accuracy.

Tag Management

The TAG1200 module Tag can be programmed via a wireless interface using the Stanley Healthcare Tag Activator. Together with the AeroScout Tag Manager software it allows for easy and efficient Tag configuration, activation or deactivation and programming. The tag can also be programmed over-the-air using the MobileView application.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- a. Reorient or relocate the receiving antenna.
- b. Increase the separation between the equipment and receiver.
- c. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- d. Consult the dealer or an experienced radio/TV technician.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

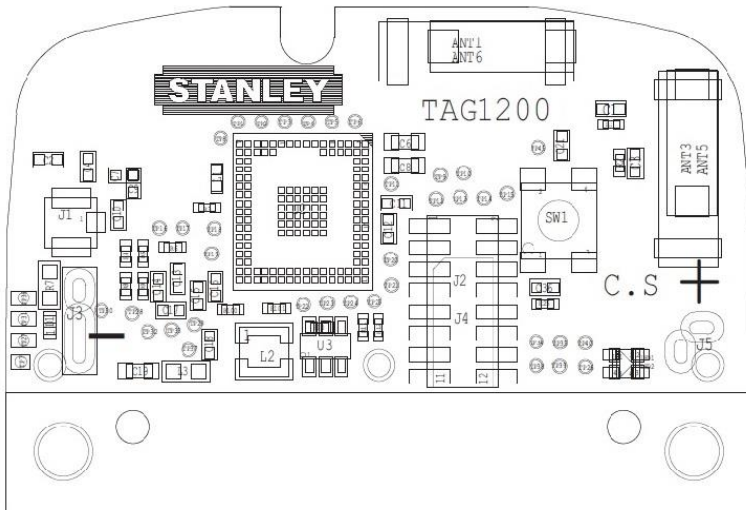
Connectors and Electrical Interfaces

16 pin connector

A 16-pin serial connector is used as an additional option to externally power the tag. In addition it provides serial interface for telemetry and configuration of the module

Pin	Description	Pin	Description
1	Pushbutton_2	9	Pushbutton_1
2	UART1_TX	10	UART1_RX
3	VCC_3.3V	11	UART2_RX
4	UART2_TX	12	NC
5	GND	13	NC
6	RESET	14	NC
7	WAKEUP	15	NC
8	ENABLE	16	NC

Mechanical Drawings



Installation Instruction

The TAG1200 module should be installed inside equipment enclosure by keeping its location as far as possible from metal parts to prevent RF performance degradation

Before plugging the module into device, turn off the device power and verify there is no live power on the connector pins.

Connect the TAG1200 module to the device by

using board to board or wire to board connector. Verify straight insertion and make sure there are no bent or unconnected pins.

Use up to three screws (provided with the TAG1200 Module) to mount the module to the host device mechanics.

Turn the host power on. The device is ready for use.

OEM Instructions

- The module is limited to OEM installation **ONLY**.
- The OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install the module.
- The module is limited to installation in mobile or fixed applications, according to Part 2.1091(b);
- Separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093 and different antenna configurations;
- Labeling instructions of finished products must contain the following - "Contains Transmitter Module FCC ID: Q3HTAG1200, IC: 5115A-TAG1200"

The OEM/Integrator must include the following instructions/statements in the host user's manual (i.e. end product):

- Statements required per FCC Part 15.19 and 15.21;
- End-users must be provided with transmitter/antenna installation requirements and operating conditions for satisfying RF exposure compliance:
 - A separate section should clearly state "FCC RF Exposure requirements: "
 - Required operating conditions for end users
 - Antenna/or transmitter installation requirements, where relevant

(For example: whether the antenna used with this module must be installed to provide a separation distance of at least 30 cm from all persons, and must not transmit simultaneously with any other antenna or transmitter.)

Please refer to **KDB821551 for grant conditions** for various types of product.

FCC Warning

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

WARNING: This device complies with Part 15 of the FCC Rules and RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Preliminary