

Alert Hyperguard

OEM Integration guide V1.0

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TABLE OF CONTENTS

1.	FORWORD	3
2.	FCC / IC.....	3
	2.1 LABELING REQUIREMENTS	3
	2.2 FEDERAL COMMUNICATIONS COMMISSION STATEMENT	4
	2.3 INDUSTRY CANADA STATEMENT	5
3.	MODULE HYPER ANTENNA 3.1 PCB	6
	3.1 MECHANICAL DIMMENTIONS.....	6
4.	HOW TO INTEGRATE THE MODULE INTO AN OEM ANTENNA.....	7
	4.1 OEM EAS ANTENNA	7
	4.2 OEM ANTENNA	7
	4.3 EAS ANTENNA BOARD INTEGRATION KIT	8
	4.4 COLOR CODE OF THE CAT5E CABLE	8

1. FORWARD

The purpose with this guide is to give instructions for integrating the module HYPER ANTENNA 3.1 into the antenna housing.

2. FCC / IC

2.1 Labeling requirements

The HYPER ANTENNA 3.1 module meets Part 15 of the FCC rules and regulations. Compliance with the labeling requirements, FCC notices is required.

In order to comply with FCC Certification requirements, the Original Equipment Manufacturer (OEM) must fulfill the following requirements.

- The system integrator must place an exterior label on the outside of the final product housing the HYPER ANTENNA 3.1 Module. The figure below shows the contents that must be included in this label.

The OEM must make sure that FCC / IC labeling requirements are met. This includes a clearly visible exterior label on the outside of the final product housing, that displays the contents shown in below:

Contains FCC ID: S8OHYPER1730
Contains IC ID: 5849A-HGINT1730
M/N: HYPER ANTENNA 3.1

2.2 Federal Communications Commission Statement

Limited Modular Approval:

This module is approved only for installation in devices under control of the grantee and only for models indicated in this filing. The antenna(s) used for this module must not be co-located or operated in conjunction with any other antenna or transmitter. Separate approval is required for all other operating configurations, and different antenna configurations.

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, and
2. this device must accept any interference received, including interference that may cause undesired operation of the device"

The S8OHPER1730 module is approved only for installation into the antenna housing types:

	Height [cm]	Width [cm]	Area [sq cm]	No. of Antenna loops
Alert HyperGuard V2.0 Antenna 12cm	152	12	1824	2
Alert HyperGuard V2.0 Antenna 18cm	152	18	2736	2
HyperGUARD V2.0 Pedestal P10	170	50	8500	1
Pedestal EVOLVE IR P10 PSB	170	50	8500	1
Pedestal EVOLVE IR P10 SSB	170	50	8500	1
Pedestal CLR PX PSB	169	49,5	8365,5	1
Pedestal CLR PX SSB	169	49,5	8365,5	1
Pedestal EVOLVE IR G10 PSB	165	49	8085	1
Pedestal EVOLVE IR G10 SSB	165	49	8085	1
Pedestal EVOLVE IR G10A PSB	165	49	8085	1
Pedestal EVOLVE IR G10A SSB	165	49	8085	1
Pedestal EVOLVE IR P30 SSB,W/ADP,OPT/	154	34	5236	1
Pedestal EVOLVE IR P30 PSB,W/ADP,OPT/	154	34	5236	1
Pedestal CLR Street PSB W/ADP	154	34	5236	1
Pedestal CLR Street SSB W/ADP	154	34	5236	1
Pedestal EVOLVE IR P20 PSB	171	30	5130	1
Pedestal EVOLVE IR P20 SSB	171	30	5130	1
Pedestal EVOLVE IR G35 PSB	151,4	27	4087,8	1
Pedestal EVOLVE IR G35 SSB	151,4	27	4087,8	1
Pedestal CLR Style PSB	151,4	27	4087,8	1
Pedestal CLR Style SSB	151,4	27	4087,8	1

WARNING!

The antenna(s) used for this module must not be co-located or operated in conjunction with any other antenna or transmitter. Separate approval is required for all other operating configurations, and different antenna configurations".

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

2.3 Industry Canada Statement

This device complies with Industry Canada licence-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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter (IC: 5849A-HGINT1730) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 5849A-HGINT1730) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Models / Modèles d'antenne:

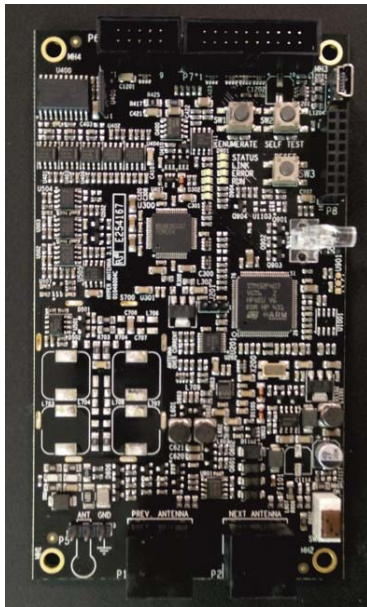
	Height [cm]	Width [cm]	Area [sq cm]	No. of Antenna loops
Alert HyperGuard V2.0 Antenna 12cm	152	12	1824	2
Alert HyperGuard V2.0 Antenna 18cm	152	18	2736	2
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Pedestal EVOLVE IR G10A PSB	165	49	8085	1
Pedestal EVOLVE IR G10A SSB	165	49	8085	1
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Pedestal EVOLVE IR G35 SSB	151,4	27	4087,8	1
Pedestal CLR Style PSB	151,4	27	4087,8	1
Pedestal CLR Style SSB	151,4	27	4087,8	1

3. MODULE HYPER ANTENNA 3.1 PCB

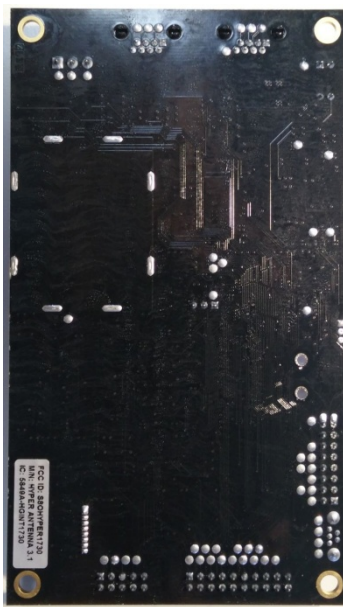
Module HYPER ANTENNA 3.1 have the following FCC ID and IC ID numbers:

FCC ID: S80HYPER1730

IC ID: 5849A-HGINT1730



Top side of Antenna board



Bottom side of antenna board



Label on antenna board

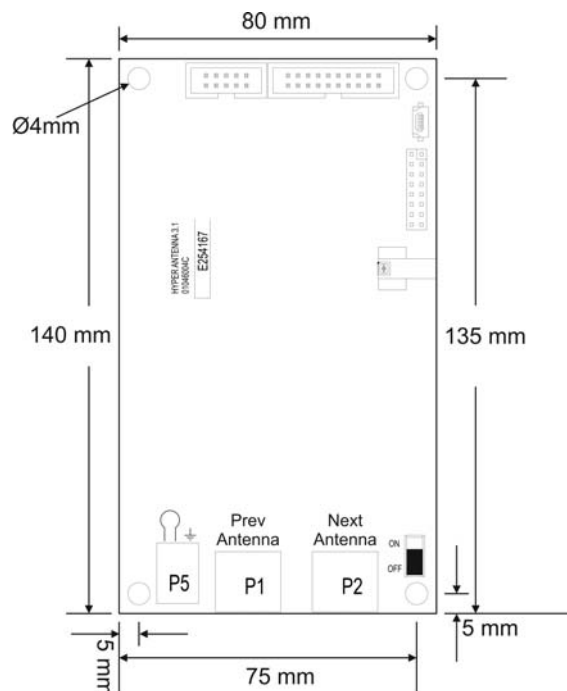
3.1 Mechanical dimmentions

Length: 140 mm / 5.51 in

Width: 80 mm / 3.15 in

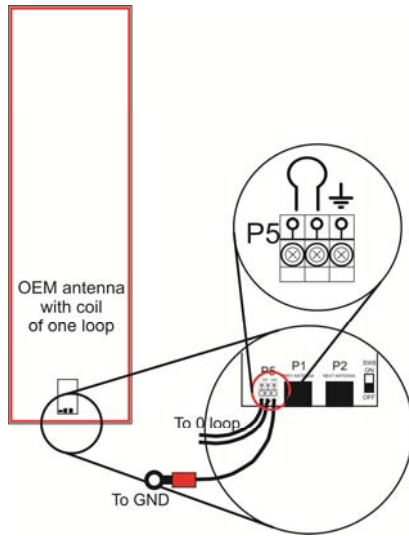
Height: 18 mm / 0.71 in

Weight : 95 g / 0.63 oz



4. HOW TO INTEGRATE THE MODULE INTO AN OEM ANTENNA

4.1 OEM EAS antenna



Place the module at the bottom of the EAS antenna using the parts in the board installation kit. It is very important that the board is placed in the centerline with RJ45 connectors pointing down.

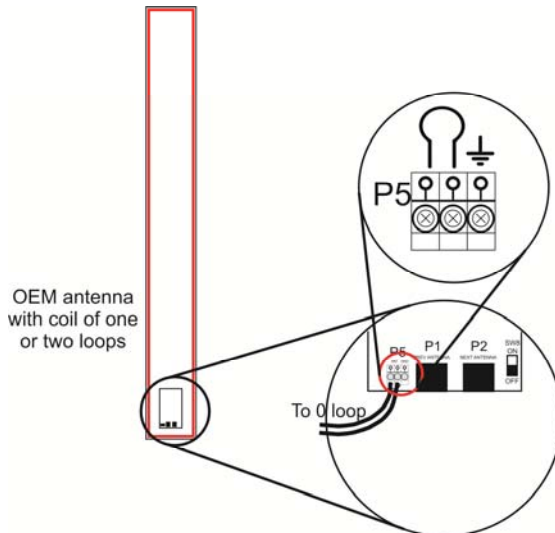
Connect the 0 loop and ground to connector P5 as shown in the drawing.

Please note:

Special considerations due to the magnetic sensor on the module

If using metal screws for fixing the module, they shall be of non ferromagnetic materials like stainless steel

4.2 OEM antenna



Place the module at the bottom of the EAS antenna using the parts in the board installation kit. It is very important that the board is placed in the centerline with RJ45 connectors pointing down.

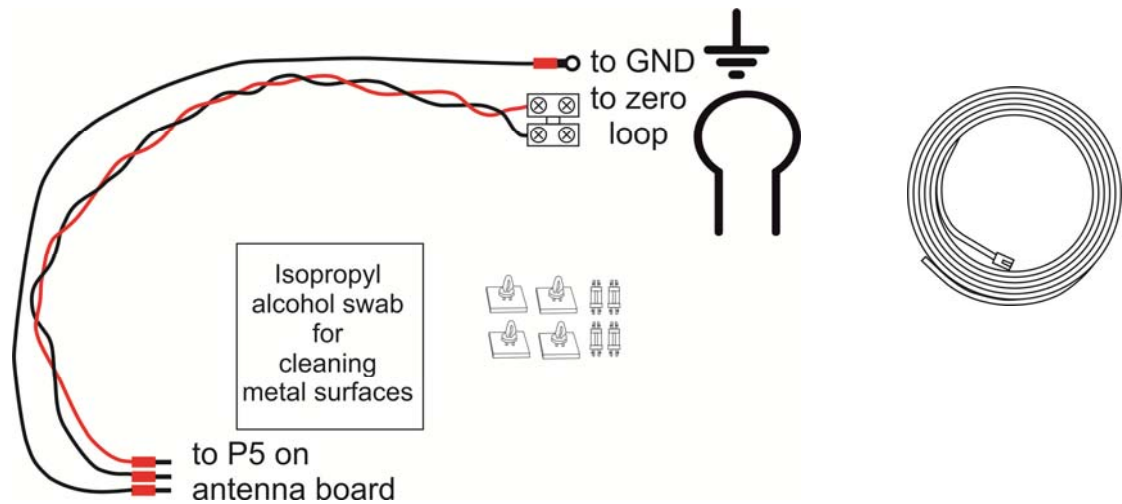
Connect the 0 loop to connector P5 as shown in the drawing.
The ground wire shall not be connected

Please note:

Special considerations due to the magnetic sensor on the module

If using metal screws for fixing the module, they shall be of non ferromagnetic materials like stainless steel

4.3 EAS antenna board integration kit



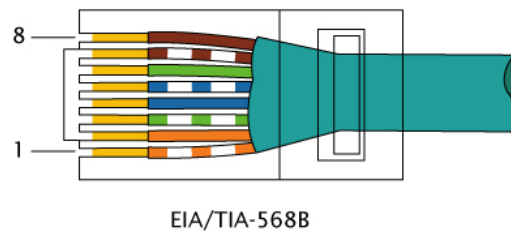
The RF antenna board integration kit consists of

- 4 pcb spacers with adhesive
- 4 pcb stand offs
- Alcohol swab for cleaning metal surfaces where the spacers shall be placed
- an extension cable consisting of three wires.
 - Two wires to the zero loop
 - One wire to the ground (see drawing above)
- 2.5 m / CAT5e cable terminated in one end with RJ45 connector
- 2 x RJ45 connector

4.4 Color code of the CAT5e cable

Color code and the CAT5e cable

- Wiring: EIA/TIA-568B



Article number: 9001003151