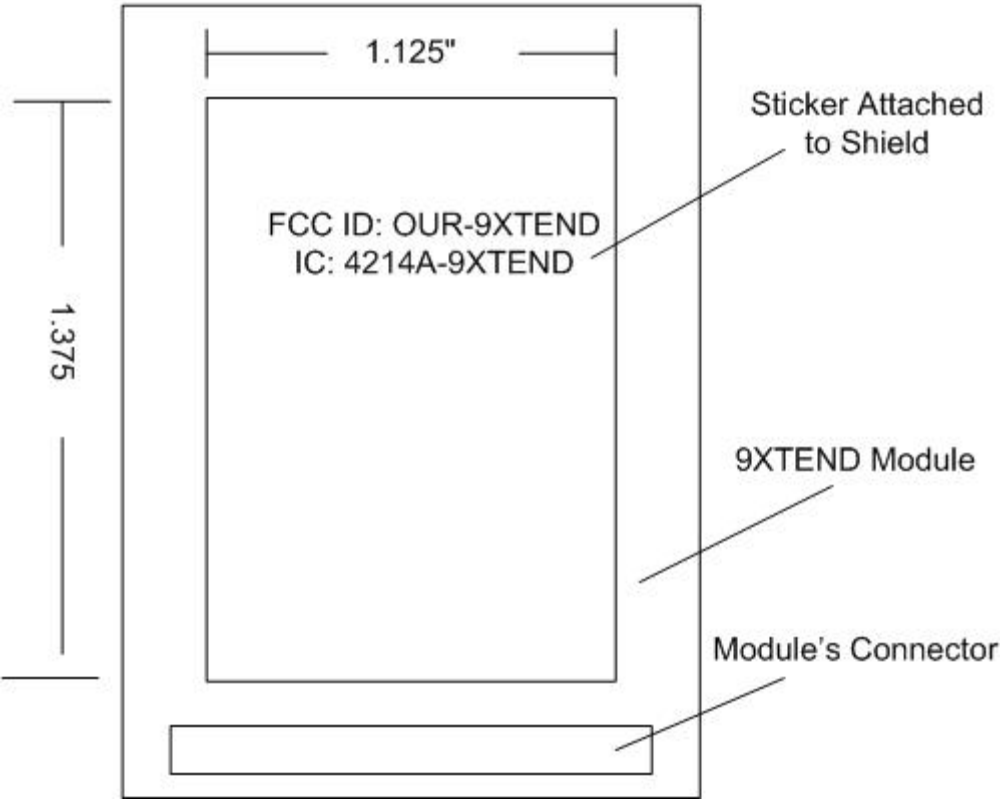


TOP VIEW OF MODULE



# Appendix A:

## Agency Certifications

### FCC Certification

The XTend OEM RF Module complies with Part 15 of the FCC Rules. In order to inherit MaxStream's FCC Certification, compliance requires the following be stated on the device and within its operation manual:

FCC ID: **Pending**

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.

### OEM Labeling Requirements

#### Label Warning

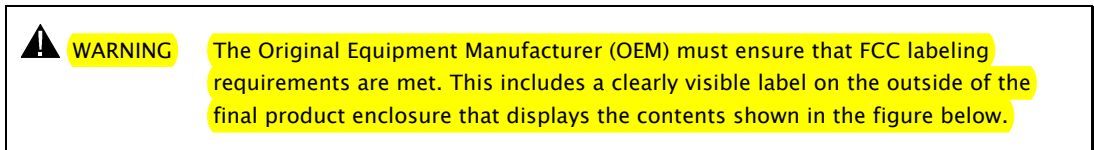
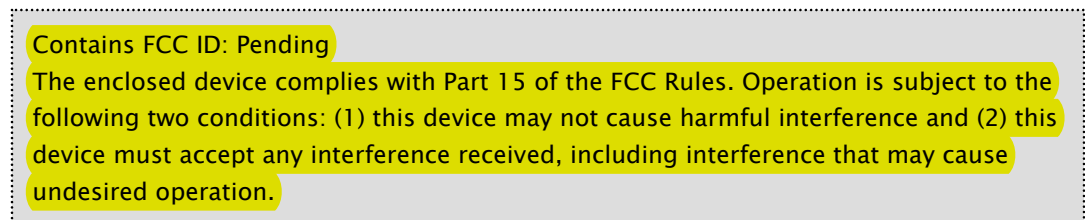


Figure 23. Required FCC Label for OEM products containing the XTend OEM RF Module



## FCC Notices

Adherence to the following is required:

**IMPORTANT:** The XTend OEM RF Modules have been certified by the FCC for use with other products without any further certification (as per FCC section 2.1091). Changes or modifications not expressly approved by MaxStream could void the user's authority to operate the equipment.

**IMPORTANT:** OEMs must test their final product to comply with unintentional radiators (FCC section 15.107 and 15.109) before declaring compliance of their final product to Part 15 of the FCC Rules.

**IMPORTANT:** The XTend OEM RF Modules have been certified for fixed base station and mobile applications. If modules will be used for portable applications, the device must undergo SAR testing.

### NOTE:

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:

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

### Antenna Warning



**WARNING:** This device has been tested with Reverse Polarity SMA connectors with the antennas listed in Table 9 of Appendix A. When integrated into OEM products, fixed antennas require installation preventing end-users from replacing them with non-approved antennas. Antennas not listed in the tables must be tested to comply with FCC Section 15.203 (unique antenna connectors) and Section 15.247 (emissions).

## FCC-Approved Antenna List (900 MHz)

Table 9. Antennas approved for use with 9XTend (900 MHz) OEM RF Modules.

Manufacturer	Part Number	Type	Gain	Application
*	*	Yagi	6.2 dBi	Fixed/Mobile **
*	*	Yagi	7.2 dBi	Fixed/Mobile **
MaxStream	A09-Y8	Yagi	8.2 dBi	Fixed/Mobile **
*	*	Yagi	9.2 dBi	Fixed/Mobile **
*	*	Yagi	10.2 dBi	Fixed/Mobile **
MaxStream	A09-Y11	Yagi	11.2 dBi	Fixed/Mobile **
MaxStream	A09-F2	Omni Direct.	2.2 dBi	Fixed **
MaxStream	A09-F5	Omni Direct.	5.2 dBi	Fixed **
MaxStream	A09-F8	Omni Direct.	8.2 dBi	Fixed **
*	*	Omni Direct.	9.2 dBi	Fixed **
*	*	Omni Direct.	7.2 dBi	Fixed **
MaxStream	A09-M7	Omni Direct.	7.2 dBi	Fixed **
MaxStream	A09-HASM-675	1/2 wave antenna	2.1 dBi	Fixed/Mobile **
MaxStream	A09-HAMM-P5I	1/2 wave antenna	2.1 dBi	Fixed/Mobile **
MaxStream	A09-HBMM-P5I	1/2 wave antenna	2.1 dBi	Fixed/Mobile **
MaxStream	A09-QBMM-P5I	1/4 wave antenna	1.9 dBi	Fixed/Mobile **

\* FCC-approved antennas not inventoried by MaxStream – Contact MaxStream (801) 765-9885 for more information.

\*\* Can be approved for portable applications if integrator gains approval through SAR testing

Over 100 additional antennas have been tested and approved for use with MaxStream 900 MHz Radio Modems (including “Mag Mount”, “Dome”, “Multi-path” and “Panel” antennas). Because of the large number of approved antennas, MaxStream requests OEMs and users send specific information about an antenna they would like to use with the module and MaxStream will evaluate whether the antenna is covered under its FCC filing. Contact MaxStream at (801) 765-9885.


### Fixed Base Station and Mobile Applications

MaxStream radio modems are pre-FCC approved for use in fixed base station and mobile applications. When the antenna is mounted at least 20 cm (8 in) from nearby persons, the application is considered a mobile application.

### Portable Applications and SAR Testing

When the antenna is mounted closer than 20 cm to nearby persons, then the application is considered “portable” and requires an additional test be performed on the final product. This test is called the Specific Absorption Rate (SAR) testing and measures the emissions from the radio modem and how they affect the person.

**RF Exposure** (This statement must be included as a CAUTION statement in manuals for OEM products.)

 **WARNING:** For Portable Antenna Applications: This equipment is approved only for mobile and base station transmitting devices, separation distances of (i) 20 centimeters or more for antennas with gains < 6 dBi or (ii) 2 meters or more for antennas with gains ≥ 6 dBi should be maintained between the antenna of this device and nearby persons during operation. To ensure compliance, operation at distances closer than this is not recommended.

### To fulfill FCC Certification requirements:

1. Integrator must ensure required text [Figure 23] is clearly placed on the outside of the final product.
2. XTend Module may be used only with Approved Antennas that have been tested with this module. [Table 9]

## IC (Industry Canada) Certification

Labeling requirements for Industry Canada are similar to those of the FCC. A clearly visible label on the outside of the final product enclosure must display the following text:

### Contains Model 9XTend Radio, IC: Pending

Integrator is responsible for its product to comply with IC ICES-003 & FCC Part 15, Sub. B - Unintentional Radiators. ICES-003 is the same as FCC Part 15 Sub. B and Industry Canada accepts FCC test report or CISPR 22 test report for compliance with ICES-003.