



User Manual

EYSNSNZWWZ1

Compliance and Regulatory Statements

FCC Compliance Statement (USA)

This device complies with Part 15.247. 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.

This equipment has been tested and found to comply with Class B Digital Devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the product manuals, 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, the user is encouraged to employ one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced RF service technician for help

The end product must be labeled, in a visible area, with the following:

Contains FCC ID: I28-EYSNSNZWWZ1

Modification Warning

The user is cautioned that any changes or modifications not expressly approved by Zebra Technologies could void the user's authority to operate the equipment. To ensure compliance, this printer must be used with fully shielded communication cables.

RF Exposure Statement

This transmitter complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.



Canadian DOC Compliance Statement

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. This Class B digital apparatus complies with Canadian ICES-003.

Innovation, Science, and Economic Development Canada (ISED) Warning

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 de compromettre le fonctionnement.

Énoncé d'exposition aux rayonnements: Cet équipement est conforme aux limites d'exposition aux rayonnements ioniques RSS-102 pour un environnement incontrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

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., (2) This device must accept any interference, including interference that may cause undesired operation of the device.

ISED Radiation Exposure Statement

This equipment complies with the IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and user body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ioniques RSS-102 pour un environnement incontrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

The end product must be labeled, in a visible area, with the following:
Contains IC: 3798B-EYSNSNZWWZ1

Approved Antenna Information

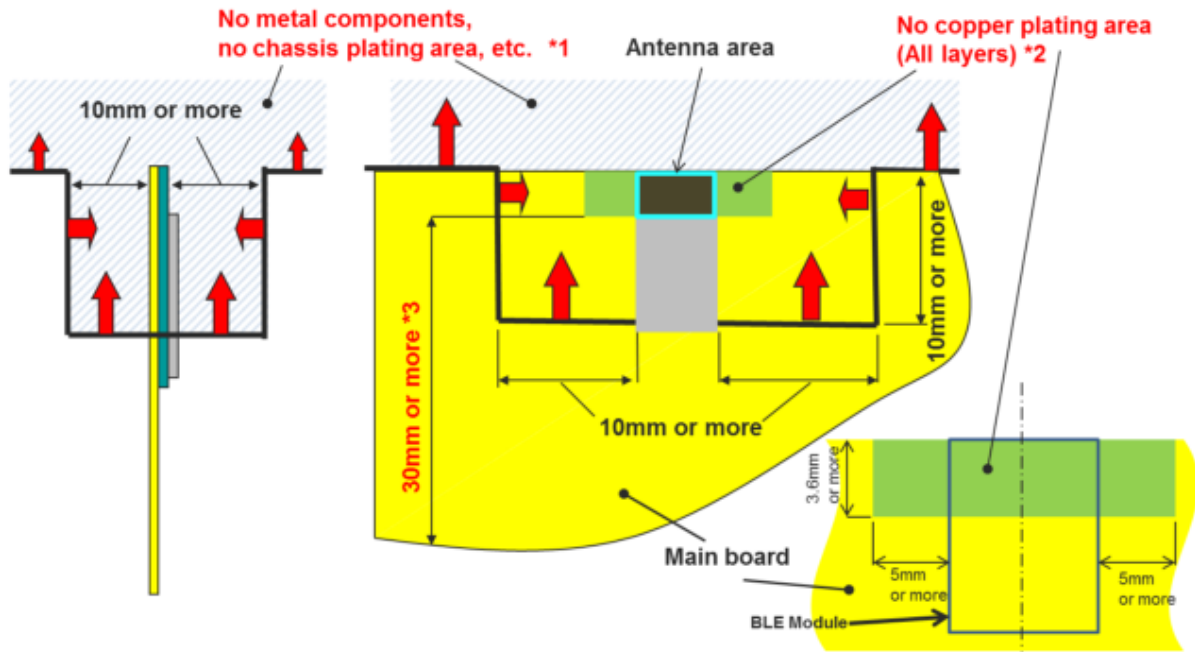
Only the integrated antenna on the module is allowed and cannot be user replaceable.

Antenna type:

PCB: Gain: -4dBi (2.4GHz)

Part number: nRF52811

Recommended mounting example for module and antenna:



Note: a wide GND area must be provided to ensure isolation for each layer

General

The EYSNSNZWWZ1 module has been certified as a Full Modular device, and is not a Limited Module. Additional evaluation is required for use in all host devices.

Maximum ratings and operational conditions:

Symbol	Parameter	Min.	Max.	Units
VCC_NRF		-0.3	+3.9	V
GND			0	V
VIO, VCC_NRF ≤ 3.6V		-0.3	VCC_NRF + 0.3	V
VIO, VCC_NRF > 3.6V		-0.3	+3.9	V
Storage temperature		-40	+85	Deg-C
MSL	Moisture Sensitivity Level	3		
ESD HBM	Human Body Model		1	kV
ESD MM	Machine Model		100	V
Endurance	Flash Memory Endurance	10000		write/erase cycles
Retention	Flash Memory Retention	10 years		At 40 deg-C

The following describes the installation procedures for the various hosts in which the module has been evaluated.

Installation Instructions for Zebra Printers



The EYSNSNZWWZ1 module is not intended for OEM integrations or end users. It can only be installed in the Zebra printers at the grantee manufacturing facility.

Test Modes and Testing Requirements

This transmitter is to be tested while installed into a host device. The operational test modes are as follows:

- Normal connection mode paired with a separate master device
- Continuous wave transmission mode: Channels 0-39 selectable, output power selectable, modulated and unmodulated transmission selectable. Example test commands to host device are listed below

<* To put printer into FCC test mode, highlight the below 3 lines, and press SHIFT-F5 *>

```
! U1 SETVAR "wlan.test.sar.mode" "on" <CR><LF>
```

```
! U1 SETVAR "bluetooth.test_mode" "on" <CR><LF>
```

```
! U1 SETVAR "device.reset" "" <CR><LF>
```

<* After printer device resets, highlight the below 4 lines, and press SHIFT-F5 *>

<* Change TBLExxx to any of the below Examples *>

```
! U1 SETVAR "wlan.test.sar.tx_stop" "" <CR><LF>
```

```
! U1 SETVAR "device.friendly_name" "TEST2000" <CR><LF>
```

```
! U1 SETVAR "wlan.test.sar.tx_start" "" <CR><LF>
```

```
! U1 SETVAR "device.reset" "" <CR><LF>
```

<* After testing is completed, highlight the below 3 lines, and press SHIFT-F5 *>

```
! U1 SETVAR "wlan.test.sar.mode" "off" <CR><LF>
```

```
! U1 SETVAR "bluetooth.test_mode" "off" <CR><LF>
```

```
! U1 SETVAR "device.reset" "" <CR><LF>
```