

# 1DX Installation Manual

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FCC ID of this product is as follows.

FCC ID:VPYLB1DX

For OEM integration only – device cannot be sold to general public.  
Therefore we will ask OEM to include the following statements required by FCC on the product and in the Installation manual Notice.

## Contents

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# 1. Supply Voltage



|                                 |       | min. | typ.     | max. | unit  |
|---------------------------------|-------|------|----------|------|-------|
| Specification Temperature Range |       | -10  | +25      | +55  | deg.C |
| Specification Voltage           | VBAT  | 3.2  | 3.6      | 4.2  | V     |
|                                 | VDDIO | 1.71 | 1.8or3.3 | 3.63 | V     |

## 2. Antenna

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- Please perform the antenna design that followed the specifications of the antenna.

The concrete contents of a check are the following three points.

- 1 ) It is the same type as the antenna type of antenna specifications.  
Confirm the same size as the Gerber file.
- 2 ) An antenna gain is lower than a gain given in antenna specifications.  
Measure the gain, and confirm the peak gain is less than the application value (1.4dBi)
- 3 ) The emission level is not getting worse.  
Measure the spurious, and confirm degradation of less than 3dB than spurious value of worst of report used for the application. However it is spurious defined below.

Please send those reports to Murata.

### 3. Notice

For OEM integration only – device cannot be sold to general public.  
Therefore we will ask OEM to include the following statements required  
by FCC/IC on the product and in the Installation manual Notice.  
Please describe the following warning on the final product which contains this module.

Contains Transmitter Module FCC ID:VPYLB1DX

or

Contains FCC ID:VPYLB1DX

● Please describe the following warning to the manual.

|                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| FCC CAUTION<br>Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.                                                                                                                    |
| This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.                                                                                                                                                                           |

※When the product is small, as for these words mentioned above, the posting to a manual is possible.

### 3. Notice

- When installing it in a mobile equipment. Please describe the following warning to the manual.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

- When installing it in a portable equipment.

It is necessary to take a SAR test with your set mounting this module.  
Class II permissive change application is necessary using the SAR report.

Note)

Portable equipment : Equipment for which the spaces between human body and antenna are used within 20cm.

Mobile equipment : Equipment used at position in which the spaces between human body and antenna exceeded 20cm.

### 3. Notice

**This device is intended only for OEM integrators under the following conditions:**

- 1)The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2)The transmitter module may not be co-located with any other transmitter or antenna.
- 3)The use of an antenna with gain less than 1.4 dBi.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

**End Product Labeling**

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID:XXXXXXXXXX". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

**Manual Information To the End User**

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.  
The end user manual shall include all required regulatory information/warning as show in this manual.