

# **User Manual**

# **TPURID2100**

## 1. Installation procedure

This Module interface is the Board-to-Board connector as below,

Pin No	Pin Name	Pin No	Pin Name
1	VIN	2	VIN
3	VIN	4	VIN
5	VIN	6	VIN
7	3.3VOUT	8	3.3VOUT
9	ALARM	10	UART_CTS
11	SPI2_MOSI	12	UART_RTS
13	SPI2_MISO	14	Reserve1
15	SPI2_SCK	16	Reserve2
17	SPI2_NSS	18	Reserve3
19	UART3_RX	20	Reserve4
21	UART3_TX	22	GPIO1
23	UART_RX	24	UART2_TX
25	UART_TX	26	UART2_RX
27	UART4_TX	28	I2C1_SCL
29	UART4_RX	30	I2C1_SDA
31	MCU_RESETh	32	MCU_BOOT
33	GND	34	GND
35	GND	36	GND
37	GND	38	GND
39	GND	40	GND

## 2.

This is a user manual for host product manufacturers to use when integrating the module in a host product.

[2.1 General] : Applicable

This user manual describes the integration procedure per Sec. 2.2 to 2.12 of KDB 996369 D03.

[2.2 List of applicable FCC rules] : Applicable

This device complies with below part 15 of the FCC Rules.

Part 15 Subpart C

[2.3 Summarize the specific operational use conditions] : Not Applicable

[2.4 Limited module procedures] : Not Applicable

[2.5 Trace antenna designs] : Not Applicable

[2.6 RF exposure considerations] : Applicable

The following statements must be described on the user manual of the host device of this module;

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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.

[2.7 Antennas] : Applicable

The device is designed to use the antennas listed below. Do not modify the antenna or any other part of the module. Any modifications will invalidate the modular certifications and require new approvals for the host system.

Model No.	Antennna Type.	Antenna Gain	Unit
ARRTN5-915.000MHz	Patch	3.31	dBi

[2.8 Label and compliance information] : Applicable

Following information must be indicated on the host device of this module.

Contains Transmitter Module FCC ID: WQYURID02
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or

Contains FCC ID: WQYURID02
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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.

\*If it is difficult to describe this statement on the host device due to the size, please describe in the user's manual and also either describe on the device packaging or on a removable label attached to the device.

The following statements must be described on the user manual of the host device of this module;

#### FCC CAUTION

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

[2.9 Information on test modes and additional testing requirements] : Not Applicable

[2.10 Additional testing, Part 15 Subpart B disclaimer] : Applicable

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant (FCC Part 15.247), and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

[2.11 Note EMI Considerations] : Applicable

We recommend to use "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties. The host manufacturer is responsible for ensuring compliance with the applicable FCC rules for the transmitters operating individually and simultaneously. This includes compliance for the summation of all emissions from all outputs occupying the same or overlapping frequency ranges, as defined by the applicable rules.

[2.12 How to make changes] : Applicable

Only the grantee is permitted to make permissive changes.

Please contact us at <http://www.telepower.jp/en/contact.html>.