



# SMF2 WW/CN

STI6200B

Specification

Rev. 0.8 (2021.09.16)

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## Revision History

Revision	Date	Modified descriptions
0.1	2020. 1. 30	Preliminary version.
0.2	2020.4.30	Chapter structure changed
0.3	2020.7.22	Antenna Information added & Statement updated
0.4	2020.7.27	DoC Added
0.5	2021.8.3	Modified Wi-Fi 2.4/5G & Bluetooth RF Spec
0.6	2021.8.25	CE DoC Added
0.7	2021.9.3	FCC & ICED Statement Revised
0.8	2021.9.16	Add Countries for 5G UNII Band, EU Pictogram Revised.

## **Chapter 1. Application Outline and Scope**

SMF2 is an internet multi-stream interactive decoder. Mainly for Epson projector user entertainment usage. The main system CPU is a quad-core ARM Cortex-A55 CPU to improve decoder performance. An ARM G31 MP2 GPU handles all OpenGL ES 3.2 Vulkan 1.1 and OpenCL 2.0 graphic programs.

The decoder supports multiple video/audio formats decoding such as MPEG-2 AVC/H.264 HEVC/H.265/MP3/AAC/RM/FLAC/Ogg/Dolby Digital / programmable with 7.1/5.1 down-mixing a Wi-Fi and Bluetooth module embedded.

It supports globe WLAN standard and connects to internet to provide rich multi-media streaming experience. A remote control that meets ATV criteria and be able to connect decoder and control menu and programs selections.

Displays up to 4K though HDMI 2.1. Android TV is build-in ATV standard launcher. The most popular entertainment apps (Amazon/Mango TV) which are pre-loaded allows to free upgrade. Detail description related to hardware/software/mechanical/quality are found in following chapters.

## Chapter 2. Hardware Specifications

Operating Temperature: -5 °C~ 50°C

### 2.1 Wi-Fi / Bluetooth / Antenna Specifications

#### 2.1.1 Wi-Fi (2.4G RF Specification)

Conditions : VBAT=3.3V ; VDDIO=1.8V ; Temp:25°C

Feature	Description				
<b>WLAN Standard</b>	IEEE 802.11 b/g/n & Wi-Fi compliant				
<b>Frequency Range</b>	2.400 GHz ~ 2.4835 GHz (2.4GHz ISM Band)				
<b>Number of Channels</b>	2.4GHz: Ch1 ~ Ch13 (EU/ Australia/ Japan) Ch1 ~ Ch11 (US/ Canada/ Taiwan)				
<b>Modulation</b>	802.11b : DQPSK、DBPSK、CCK 802.11g/n : OFDM /64-QAM、16-QAM、QPSK、BPSK				
<b>Output Power , tolerance ± 1.5 dB</b>					
<b>The transmit EVM quality &amp; spectrum mask are compliant with IEEE 802.11 standard</b>					
<b>802.11b</b>	<b>1Mbps</b>	<b>2Mbps</b>	<b>5.5Mbps</b>	<b>11Mbps</b>	
	17.5	17.5	17.5	17.5	
<b>802.11g</b>	<b>6、9Mbps</b>	<b>12、18Mbps</b>	<b>24Mbps</b>	<b>36Mbps</b>	<b>48Mbps</b>
	17.5	17.5	17	17	16.5
	<b>54Mbps</b>				
	16.5				
<b>802.11n</b>	<b>MCS0~2</b>	<b>MCS3</b>	<b>MCS4</b>	<b>MCS5</b>	<b>MCS6</b>
	17.5	16.5	16.5	16	16
	<b>20MHz</b>	<b>MCS7</b>			
	15.5				
Note: The specifications of RF output power are subject to change to fulfill the safety regulation and requirements in end-user product					
<b>Sensitivity, tolerance ± 2 dB</b>					
<b>CCK modulation PER ≦ 8%、OFDM modulation PER ≦ 10%</b>					
<b>802.11b</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>			
	<b>1Mbps</b>	-96			
	<b>2Mbps</b>	-93			
	<b>5.5Mbps</b>	-91			
	<b>11Mbps</b>	-88			
<b>802.11g</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>	
	<b>6Mbps</b>	-92	<b>24Mbps</b>	-84	
	<b>SISO</b>	<b>9Mbps</b>	<b>36Mbps</b>	-81	

	<b>12Mbps</b>	<b>-90</b>	<b>48Mbps</b>	<b>-78</b>
	<b>18Mbps</b>	<b>-87</b>	<b>54Mbps</b>	<b>-76</b>
<b>802.11g</b> <b>MIMO</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>
	<b>6Mbps</b>	<b>-95</b>	<b>24Mbps</b>	<b>-87</b>
	<b>9Mbps</b>	<b>-94</b>	<b>36Mbps</b>	<b>-84</b>
	<b>12Mbps</b>	<b>-93</b>	<b>48Mbps</b>	<b>-81</b>
	<b>18Mbps</b>	<b>-90</b>	<b>54Mbps</b>	<b>-78</b>
<b>802.11n_20MHz</b> <b>SISO</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>
	<b>MCS0</b>	<b>-91</b>	<b>MCS4</b>	<b>-80</b>
	<b>MCS1</b>	<b>-89</b>	<b>MCS5</b>	<b>-78</b>
	<b>MCS2</b>	<b>-87</b>	<b>MCS6</b>	<b>-76</b>
	<b>MCS3</b>	<b>-83</b>	<b>MCS7</b>	<b>-74</b>
<b>802.11n_20MHz</b> <b>MIMO</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>	<b>Data Rate</b>	<b>Spec.(dBm)</b>
	<b>MCS0</b>	<b>-93</b>	<b>MCS5</b>	<b>-80</b>
	<b>MCS1</b>	<b>-92</b>	<b>MCS6</b>	<b>-78</b>
	<b>MCS2</b>	<b>-90</b>	<b>MCS7</b>	<b>-76</b>
	<b>MCS3</b>	<b>-87</b>	<b>MCS8</b>	<b>-92</b>
	<b>MCS4</b>	<b>-83</b>	<b>MCS15</b>	<b>-73</b>
<b>Maximum Input</b> <b>Level</b>	<b>802.11b : -10 dBm</b>			
	<b>802.11g/n : -20 dBm</b>			

### 2.1.2 Wi-Fi (5G RF Specification)

Feature	Description				
WLAN Standard	IEEE 802.11a/n/ac & Wi-Fi compliant				
Frequency Range	5.15~5.25GHz、5.725~5.85GHz (5GHz UNII Band)				
Number of Channels	5.15~5.25GHz: Ch36 ~ Ch64 5.725~5.85GHz: Ch149 ~ Ch165 (EU/ Australia/ Japan Excluded)				
Modulation	802.11a : OFDM /64-QAM、16-QAM、QPSK、BPSK 802.11n : OFDM /64-QAM、16-QAM、QPSK、BPSK 802.11ac : OFDM /256-QAM、64-QAM、16-QAM、QPSK、BPSK				
<b>Output Power , tolerance <math>\pm</math> 2 dB</b>					
<b>The transmit EVM quality &amp; spectrum mask are compliant with IEEE 802.11 standard</b>					
802.11a	Frequency (MHz)	6~9Mbps	12~18Mbps	24Mbps	36Mbps
	5150~5250	16.5	16.5	16	16
	5725~5845	16.5	16.5	16	16
	Frequency (MHz)	48Mbps	54Mbps		
	5150~5250	15.5	15.5		
	5725~5845	15.5	15.5		
802.11n 20MHz	Frequency (MHz)	MCS0~2	MCS3	MCS4	MCS5
	5150~5250	16	16	15.5	15.5
	5725~5845	16	16	15.5	15.5
	Frequency (MHz)	MCS6	MCS7		
	5150~5250	14.5	14.5		
	5725~5845	14.5	14.5		
802.11n 40MHz	Frequency (MHz)	MCS0~2	MCS3	MCS4	MCS5
	5150~5250	16	16	15.5	15.5
	5725~5845	16	16	15.5	15.5
	Frequency (MHz)	MCS6	MCS7		
	5150~5250	14.5	14.5		
	5725~5845	14.5	14.5		
802.11ac 20MHz	Frequency (MHz)	MCS0~2	MCS3	MCS4	MCS5
	5150~5250	16	16	15.5	15.5
	5725~5845	16	16	15.5	15.5
	Frequency (MHz)	MCS6	MCS7	MCS8	
	5150~5250	14.5	14.5	12	
	5725~5845	14.5	14.5	12	

802.11ac 40MHz	Frequency (MHz)	MCS0~2	MCS3	MCS4	MCS5
	5150~5250	16	16	15.5	15.5
	5725~5845	16	16	15.5	15.5
	Frequency (MHz)	MCS6	MCS7	MCS8	MCS9
	5150~5250	14.5	14.5	12	10
	5725~5845	14.5	14.5	12	10
802.11ac 80MHz	Frequency (MHz)	MCS0~2	MCS3	MCS4	MCS5
	5150~5250	15	15	14	14
	5725~5845	15	15	14	14
	Frequency (MHz)	MCS6	MCS7	MCS8	MCS9
	5150~5250	13	13	12	10
	5725~5845	13	13	12	10

Note: The specifications of RF output power are subject to change to fulfill the safety regulation and requirements in end-user product.

Sensitivity, tolerance $\pm 2$ dB				
CCK modulation PER $\cong 8\%$ 、OFDM modulation PER $\cong 10\%$				
802.11a SISO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	6Mbps	-91	24Mbps	-83
	9Mbps	-90	36Mbps	-80
	12Mbps	-88	48Mbps	-76
	18Mbps	-86	54Mbps	-74
802.11a MIMO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	6Mbps	-92	24Mbps	-86
	9Mbps	-91	36Mbps	-83
	12Mbps	-90	48Mbps	-78
	18Mbps	-89	54Mbps	-77
802.11n_20MHz SISO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-90	MCS4	-79
	MCS1	-88	MCS5	-76
	MCS2	-86	MCS6	-73
	MCS3	-83	MCS7	-72
802.11n_20MHz MIMO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-92	MCS5	-78
	MCS1	-91	MCS6	-76
	MCS2	-89	MCS7	-75
	MCS3	-86	MCS8	-89
	MCS4	-82	MCS15	-70



802.11n_40MHz SISO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-88	MCS4	-77
	MCS1	-86	MCS5	-72
	MCS2	-83	MCS6	-70
	MCS3	-80	MCS7	-69
802.11n_40MHz MIMO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-88	MCS5	-75
	MCS1	-88	MCS6	-73
	MCS2	-86	MCS7	-72
	MCS3	-83	MCS8	-86
	MCS4	-79	MCS15	-67
802.11ac_20MHz SISO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-90	MCS5	-75
	MCS1	-88	MCS6	-73
	MCS2	-86	MCS7	-70
	MCS3	-83	MCS8	-67
	MCS4	-79		
802.11ac_20MHz MIMO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0,NSS=1	-92	MCS6,NSS=1	-76
	MCS1,NSS=1	-91	MCS7,NSS=1	-75
	MCS2,NSS=1	-88	MCS8,NSS=1	-72
	MCS3,NSS=1	-85	MCS0,NSS=2	-88
	MCS4,NSS=1	-82	MCS8,NSS=2	-65
	MCS5,NSS=1	-77		
802.11ac_40MHz SISO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-88	MCS5	-72
	MCS1	-86	MCS6	-70
	MCS2	-83	MCS7	-69
	MCS3	-80	MCS8	-65
	MCS4	-76	MCS9	-63
802.11ac_40MHz MIMO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0,NSS=1	-90	MCS6,NSS=1	-73
	MCS1,NSS=1	-88	MCS7,NSS=1	-72
	MCS2,NSS=1	-86	MCS8,NSS=1	-68
	MCS3,NSS=1	-82	MCS9,NSS=1	-66
	MCS4,NSS=1	-79	MCS0,NSS=2	-86
	MCS5,NSS=1	-77	MCS9,NSS=2	-60

802.11ac_80MHz SISO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0	-85	MCS5	-68
	MCS1	-82	MCS6	-67
	MCS2	-79	MCS7	-65
	MCS3	-76	MCS8	-62
	MCS4	-73	MCS9	-60
802.11ac_80MHz MIMO	Data Rate	Spec.(dBm)	Data Rate	Spec.(dBm)
	MCS0,NSS=1	-87	MCS6,NSS=1	-70
	MCS1,NSS=1	-85	MCS7,NSS=1	-68
	MCS2,NSS=1	-82	MCS8,NSS=1	-66
	MCS3,NSS=1	-79	MCS9,NSS=1	-63
	MCS4,NSS=1	-76	MCS0,NSS=2	-83
	MCS5,NSS=1	-71	MCS9,NSS=2	-58
Maximum Input Level	802.11a/n/ac : -30 dBm			

### 2.1.3 Bluetooth Specification

Conditions : VBAT=3.3V ; VDDIO=1.8V ; Temp:25°C

Feature	Description
<b>General Specification</b>	
Bluetooth Standard	BDR、EDR(1Mbps & 2Mbps)、LE(1Mbps)、2LE(2Mbps)
Host Interface	UART
Frequency Band	2402 MHz ~ 2480 MHz
Number of Channels	79 channels for classic、40 channels for BLE
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
<b>RF Specification</b>	
<b>Output Power , tolerance <math>\pm 1.5</math> dB</b>	
	<b>CL1 (dBm)</b>
BDR Output Power	7
EDR Output Power	6
BLE Output Power	6
<b>Sensitivity, tolerance <math>\pm 2</math> dB</b>	
Sensitivity @ BER=0.1% for GFSK (1Mbps)	-90 dBm
Sensitivity @ BER=0.01% for $\pi/4$ -DQPSK (2Mbps)	-92 dBm
Sensitivity @ BER=0.01% for 8DPSK (3Mbps)	-87 dBm
Sensitivity @ PER=30.8% for LE (1Mbps)	-92 dBm
Sensitivity @ PER=30.8% for 2LE (2Mbps)	-92 dBm
Maximum Input Level	GFSK (1Mbps):-20dBm
	$\pi/4$ -DQPSK (2Mbps) :-20dBm
	8DPSK (3Mbps) :-20dBm

Note\*: The Bluetooth BDR output power is able to be configured by firmware (hcd file).

## 2.2 Antenna Information

This module has been approved to operate with the antenna types listed below, with the maximum permissible gain indicated.

Antenna Type	Model Number	Connector	Gain(dBi)		
			2.4G	5G	BT
HONGBO	290-40488	I-PEX	2.34	5.29	-
HONGBO	290-40488	I-PEX	2.74	4.50	2.74

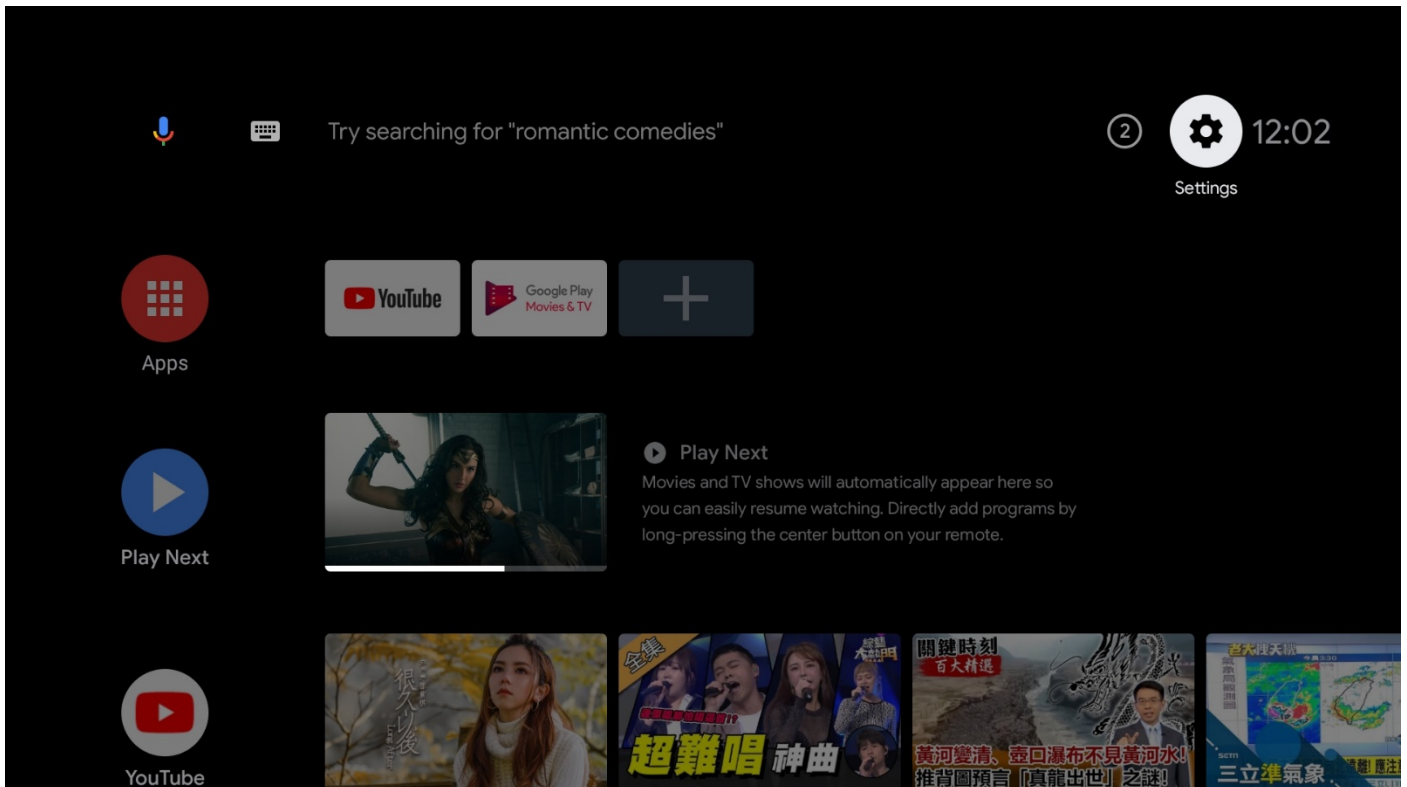
## 2.3 Global Compliance

Country	Authorization
Europe	CE
USA	FCC
Canada	IC
Japan	VCCI
	JRF
	JRF
	JRF
	JRF
	JPA
Aus/New Zealand	RCM
Taiwan	NCC
Brazil( 2 years)	ANATEL
Mexico (1 year)	IFETEL
India	WPC
	Safety +EMC
China	SRRC (End product)
Korea	KC
Argentina	ENACOM
Indonesia	SDPPI (End Product)
Chile	SUBTEL

Others including: Singapore / Thailand / Malaysia / Philippines / UAE / Israel / Vietnam / South Africa

## Chapter 3. Software Specifications

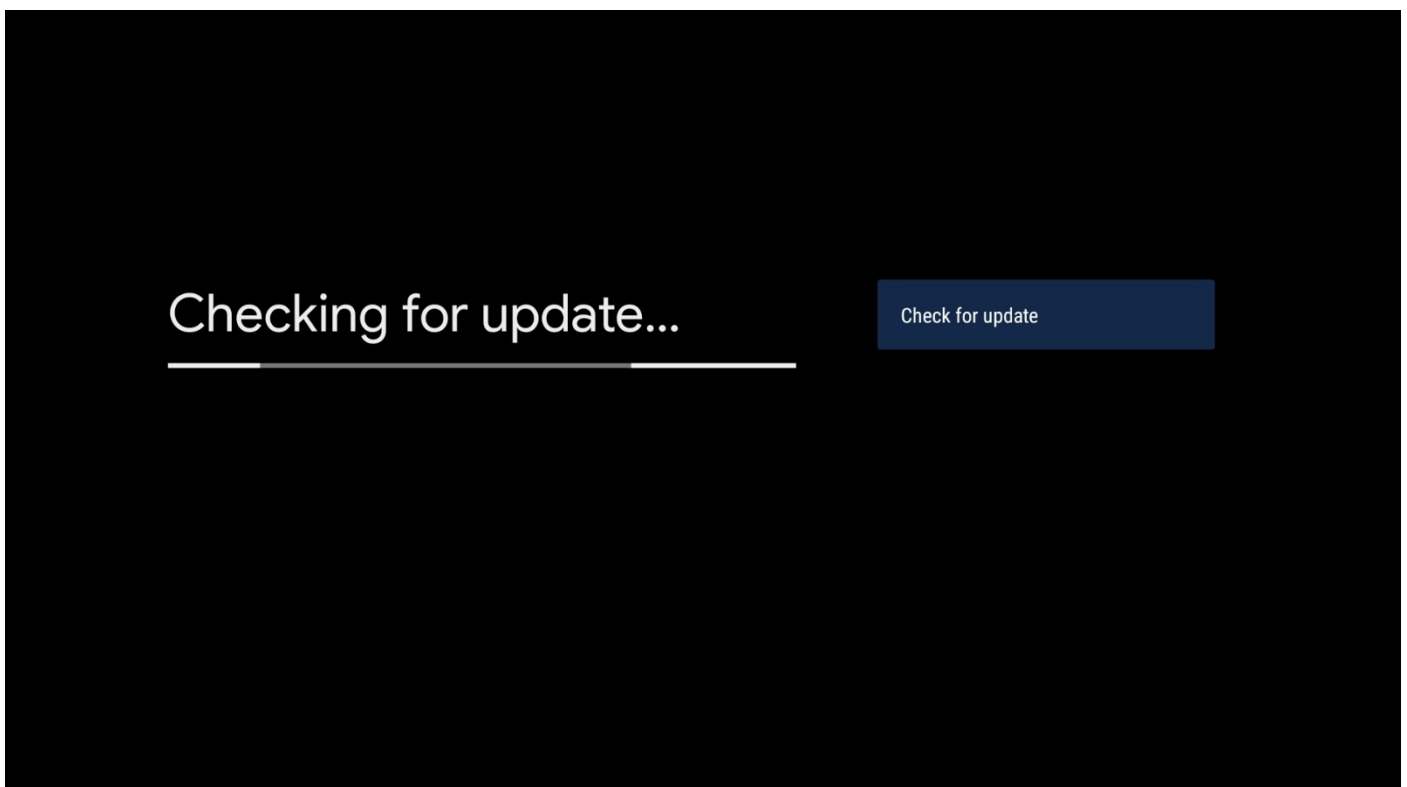
### 3.1 Launcher



### 3.2 OTA function

SMF2 is able to upgrade the FW by OTA method.

Please refer to the OTAProcess (file name) to confirm the OTA process and manage process.



## Chapter 4. Statement

### FCC & ISED

#### FCC Statement

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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

#### FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

### ISED Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- 2.L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

### ISED Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body. *Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de **20cm** de distance entre la source de rayonnement et votre corps.*

The transmitter module may not be co-located with any other transmitter or antenna.

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

### This module is intended for OEM integrators under the following conditions:

1. Ensure that the end-user has no manual instructions to remove or install module.
- 2.This module is certified pursuant to Part 15 rules section 15.247, 15.407 and RSS-247.
- 3.This module has been approved to operate with the antenna types listed below, with the maximum permissible gain indicated.

Frequency Band	Antenna Type	Model Number	Gain(dBi)
2400-2483.5MHz; 5150-5850MHz	PIFA	290-40488	2.4GHz: 2.34 5 GHz: 5.29
2400-2483.5MHz; BT; 5150-5850MHz		290-40488	2.4GHz: 2.74 5GHz: 4.50 BT: 2.74

#### **4.Label and compliance information**

##### **Label of the end product:**

##### **FCC**

The host product must be labeled in a visible area with the following " Contains FCC ID: BKMAE-STI6200B".

The end product shall bear the following 15.19 statement: 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.

##### **ISED**

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 transmitter module IC: 1052D-STI6200B" or "Contains IC: 1052D-STI6200B"

Contient le module d'émission IC: 1052D-STI6200B

The Host Model Number (HMN) must be indicated at any location on the exterior of the end product or product packaging or product literature which shall be available with the end product or online.

#### **5.Information on test modes and additional testing requirements**

This module has been approved under stand-alone configuration.

OEM integrator has be limited the operation channels in channel 1-11 for 2.4GHz band.

The separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093/RSS-102 and different antenna configurations

The information on how to configure test modes for host product evaluation for different operational conditions for a stand-alone modular transmitter in a host, versus with multiple, simultaneously transmitting modules or other transmitters in a host can be found at KDB Publication 996369 D04.

OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

**IMPORTANT NOTE:** In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC/ISED authorization is no longer considered valid and the FCC/IC No. cannot 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/ISED authorization.

#### **6. Additional testing, Part 15 Subpart B and ICES-003 disclaimer**

Appropriate measurements (e.g. Part 15 Subpart B compliance) and if applicable additional equipment authorizations (e.g. SDoC) of the host product to be addressed by the integrator/manufacturer.

This module is only FCC/ISED authorized for the specific rule parts 15.247, 15.407/RSS-247 listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC/ISED rules that apply to the host product as being Part 15 Subpart B/ICES-003 compliant.



## **7. The user manual of the end product should include:**

### **FCC:**

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

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

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.

The antenna(s) used for this transmitter must not transmit simultaneously with any other antenna or transmitter.

### **ISED:**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

### **ISED Radiation Exposure Statement:**

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de **20cm** de distance entre la source de rayonnement et votre corps.

The transmitter module may not be co-located with any other transmitter or antenna.

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

**CE**

## 1. RF power

**Compliance with 2014/53/EU Radio Equipment Directive (RED)**

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. Transmit Power (dBm/mW)
2400-2483.5	19.95 dBm (98.86 mW)
5150-5250	22.85 dBm (192.75 mW)
Bluetooth; 2, 4 GHz	7.31 dBm (5.38 mW)

## 2. RF Exposure Information (MPE)

This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

## 3. For class 2 device (supporting WLAN 5GHz: 5150-5250 MHz)

Restrictions In
All countries of Europe

4. The device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range in the following countries:

	AT	BE	BG	CY	CZ	DE	DK
	EE	EL	ES	FI	FR	HR	HU
	IE	IT	LT	LU	LV	MT	NL
	PL	PT	RO	SE	SI	SK	UK(NI)

## 5. Information of Importer:

Importer: EPSON EUROPE B.V.  
 Address: Atlas Arena, Asia Building, Hoogoorddreef 5, 1101 BA Amsterdam  
 Zuidoost  
 The Netherlands  
 Telephone: 31-20-314-5000  
<http://www.epson.eu/>

## 6. Information of Manufacturer:

Company: SEIKO EPSON CORPORATION  
 Address: 3-3-5 Owa Suwa-shi Nagano-ken 392-8502 Japan

7. EU Declaration of Conformity

## EU Declaration of Conformity

We,

**Name of Manufacturer:** SEIKO EPSON CORPORATION  
**Address:** 3-3-5 Owa Suwa-shi Nagano-ken 392-8502 Japan  
Telephone number: +81-266-52-3131

hereby, declare under our sole responsibility that the requirements set out in the **Directive 2014/53/EU** has been fully fulfilled on our product with indication below:

**Product Name:** WLAN/BT Module  
**Model Number:** STI6200B  
**Object of the Declaration:**



The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Radio Equipment Directive (RED) 2014/53/EU  
Restriction of Hazardous Substances Directive (RoHS) 2011/65/EU  
Waste Electrical and Electronic Equipment Directive (WEEE) 2012/19/EU

The following standards and technical specifications have been applied:

**Article 3.2 & 3.3 :** EN 300 328 V2.2.2, EN 301 893 V2.1.1  
**Article 3.1(b) :** EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4  
EN 55032:2015/A11:2020, EN 55035:2017/A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013+A1:2019  
**Article 3.1(a) :** EN IEC 62311:2020, EN 62311:2018, EN 50665:2017  
**Article 3.1(a) :** EN 62368-1:2020+A11:2020

Notified Body: Telefication B.V. 0560

EU-type examination certificate: with Module B+C

Additional Information:

Signed for and on behalf of:

Signature :  August 19, 2021, Japan  
Name : Harima Hiroshi  
E-mail : Harima.Hiroshi@exc.epson.co.jp

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

2. 本公司於說明書中提供所有必要資訊以指導使用者/安裝者正確的安裝及操作。

3. 本模組於取得認證後將依規定於模組本體標示審驗合格標籤，並要求平台廠商於平台上標示「本產品內含射頻模組

 CCXXxxLPyyyZ z」。