



EPSON STI6290-D101 WLAN Bluetooth Module Instruction Manual

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EPSON

EPSON STI6290-D101 WLAN Bluetooth Module



Product Information

- **Product Name:** WLAN / BT Module STI6290-D101

Regulatory Compliance Information:

- This device complies with Part 15 of the FCC Rules.
- For product available in the USA/Canada market, only channel 1~11 can be operated.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- The antenna must be installed such that 20 cm is maintained between the antenna and users.
- The transmitter module may not be co-located with any other transmitter or antenna.

Antenna Information:

Antenna Type	Frequency Band (MHz)	Ant 1 Gain (dBi)	Ant 2 Gain (dBi)
Wi-Fi Antenna	2400 ~ 2483.5	2.34	2.74
	5150 ~ 5250	3.58	3.39
	5725 ~ 5850	5.29	4.50
Bluetooth Antenna	2400 ~ 2483.5	N/A	2.74

Important Note:

Any deviation(s) from the defined parameters of the antenna trace, as described by the instructions, require that the host product manufacturer must notify EPSON of the change in antenna trace design.

Label of the end product: The host product must be labeled in a visible area with the following: Contains FCC ID: BKMAE-STI6290. 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. This module is restricted to integration into hosts for indoor use only. OEM integrator has limited the operation channels in channel 1-11 for the 2.4GHz band.

Product Usage Instructions

1. Ensure that the WLAN / BT Module STI6290-D101 is installed in a host product intended for indoor use only.
2. The antenna(s) must be installed according to the following guidelines.
 - Maintain a distance of at least 20 cm between the antenna and users.
 - The transmitter module should not be co-located with any other transmitter or antenna.
3. For products available in the USA/Canada market, only operate on channels 1~11. Selecting other channels is not possible.
4. Ensure that the maximum antenna gain (including cable loss) does not exceed the values specified in the product information table.
5. If there are any deviations from the defined parameters of the antenna trace, the host product manufacturer must notify EPSON and follow the necessary procedures for approval.
6. Label the host product with the provided FCC ID: BKMAE-STI6290 in a visible area.
7. The end product must comply with Part 15 of the FCC Rules and accept any interference received.
8. If there are any changes or modifications to the WLAN / BT Module STI6290-D101 that are not approved by the responsible party for compliance, it may void the user's authority to operate the equipment.
9. Follow all other instructions and guidelines provided in the user manual for proper and safe usage of the WLAN / BT Module STI6290-D101.

FCC

Federal Communication Commission Interference 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.

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.

List of applicable FCC rules

This module has been tested and found to comply with part 15.247, Part 15.407 requirements for Modular Approval. The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and that 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. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuitry), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

This device is intended only for OEM integrators under the following conditions: (For module device use)

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.

As long as 2 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.

Antenna

1. The antenna must be installed such that 20 cm is maintained between the antenna and users,
2. The transmitter module may not be co-located with any other transmitter or antenna.

In the event that these conditions cannot 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 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 authorization.

To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, maximum antenna gain (including cable loss) must not exceed.

Antenna Type	Frequency Band (MHz)	Ant 1 Gain (dBi)	Ant 2 Gain (dBi)
Wi-Fi Antenna			
PIFA	2400 ~ 2483.5	2.34	2.74
	5150 ~ 5250	3.58	3.39
	5725 ~ 5850	5.29	4.50
Bluetooth Antenna			
PIFA	2400 ~ 2483.5	—	2.74

Important Note

Notice that any deviation(s) from the defined parameters of the antenna trace, as described by the instructions, require that the host product manufacturer must notify to EPSON that they wish to change the antenna trace design. In this case, a Class II permissive change application is required to be filed by the USI, or the host manufacturer can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application

Label of the end product:

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

” Contains FCC ID: BKMAE-STI6290 “.

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.

This module is restricted to integration into hosts for indoor use only.

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 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

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

This device is restricted to indoor use.

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

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure.

This device is restricted to indoor use.

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

IC 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. 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 IC authorization is no longer considered valid and the 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 IC authorization.

Label of the end product:

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-STI6290”. Contient le module d’émission IC: 1052D-STI6290

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.

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

1. The antenna must be installed such that 20cm is maintained between the antenna and users, and
2. The transmitter module may not be co-located with any other transmitter or antenna.

CAN ICES-003(B) / NMB-003(B)

The Country Code Selection feature is disabled for products marketed in the US/Canada

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not 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	19.57 dBm (90.6mW)
5150-5250	19.66 dBm (92.5mW)
Bluetooth: 2402-2480	9.43 dBm (8.77mW)

2. RF Exposure Information (MPE)

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

3. The device for operation in the band 5150–5250 MHz is only for indoor use.

	AT	BE	BG	CH	CY	CZ	DE	DK
	EE	EL	ES	FI	FR	HR	HU	IE
	IS	IT	LI	LT	LU	LV	MT	NL
	NO	PL	PT	RO	SE	SI	SK	

4. Information of Importer:

EU Importer:

Name EPSON EUROPE B.V.

Address Atlas Arena, Asia Building, Hoogoorddreef 5, 1101 BA Amsterdam Zuidoost The Netherlands

TEL 31-20-314-5000

FAX 31-20-314-5010

Web <http://www.epson.eu/>

5. Information of Manufacturer:

Manufacturer:

Name SEIKO EPSON CORPORATION

Address 3-3-5, Owa, Suwa-shi, Nagano-ken 392-8502 Japan

TEL 81-263-87-5824 (ex.733-80485)

6. Declaration of Conformity

UKCA

1. RF power

Compliance with the Radio Equipment Regulations 2017

In accordance with 13 (2) (a) and 13 (2) (b) of the Radio Equipment Regulations 2017, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the UK:

Frequency range (MHz)	Max. Transmit Power (dBm/mW)
2400-2483.5	19.57 dBm (90.6mW)
5150-5250	19.66 dBm (92.5mW)
Bluetooth: 2402-2480	9.43 dBm (8.77mW)

2. RF Exposure Information (MPE)

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

3. The device for operation in the band 5150–5250 MHz is only for indoor use.



4. Information of Importer:

UK Importer:

Name Epson (UK) Ltd.

Address Westside, London Road, Hemel Hempstead, Hertfordshire, HP3 9TD, United Kingdom

TEL 44-1442-261144

FAX 44-1442-227227

Web <http://www.epson.co.uk>

5. Information of Manufacturer:

Manufacturer:



Name SEIKO EPSON CORPORATION

Address 3-3-5, Owa, Suwa-shi, Nagano-ken 392-8502 Japan

TEL 81-263-87-5824 (ex.733-80485)

6. Declaration of Conformity

Documents / Resources

 <small>Regulatory Compliance Information</small> 	<p>EPSON STI6290-D101 WLAN Bluetooth Module [pdf] Instruction Manual STI6290-D101, STI6290-D101 WLAN Bluetooth Module, WLAN Bluetooth Module, Bluetooth Module, Module</p>
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