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1.0 OVERVIEW

The **ST MA_WIFI(AZ)** is a 300Mbps 2x2 dual-band (2.4/5GHz) wireless module. This module is powered by 5V DC

2.0 CONNECTION

- 2 x RJ45 for 10/100 Ethernet
- 1 x D-SUB9 miniature connector
- 1 x Header(2x15 2mm pitch) to connect to Processing board

3.0 WIRELESS SPECIFICATIONS

Protocol/Standards

- Wireless
  - IEEE 802.11a/b/g/n
- Ethernet
  - IEEE 802.3 10/100 Ethernet
  - IEEE 802.3az support

Frequency Band

- 2412 ~ 2462 MHz
- 5150 ~ 5250 MHz
- 5725 ~ 5850 MHz

Total Num. of Channel

- 24

Wireless transmission range:

- 15 Meter

4.0 PHYSICAL SPECIFICATIONS

Dimension

– 90(L) mm x 78(W) mm x 19(H) mm

Weight

– 150g

5.0 ENVIRONMENTAL

Temperature

Operating	:	0^{o} to 50^{o} Celsius
		32^{o} to 122^{o} Fahrenheit
Non-Operating	:	-25^{o} to 70^{o} Celsius
		-13^{o} to 158^{o} Celsius

Humidity

Operating	:	10% to 90% Relative Humidity (Non-Condensing)
Non-Operating	:	10% to 90% Relative Humidity (Non-Condensing)

6.0 APPROBATIONS

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 Radiation Exposure Statement:
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.
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,

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 Labelling
The final end product must be labelled in a visible area with the following:
"Contains FCC ID: 2AG7N-MA-WIFI-AZ-V1".

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.

*NOTE: Specifications subject to change without prior notice***.**