KLM100 User Manual

1. Overview

The KLM100 Wi-Fi module provides a highly-integrated and flexible platform for developing and evaluating products and applications based on the MT7682 SoC. The KLM100 Wi-Fi module can be either used with development kit for software development or incorporated into OEM products to enable rapid deployment of Wi-Fi connected systems.

The module includes the following components:

MT7682SN chip

A printed antenna

Shield

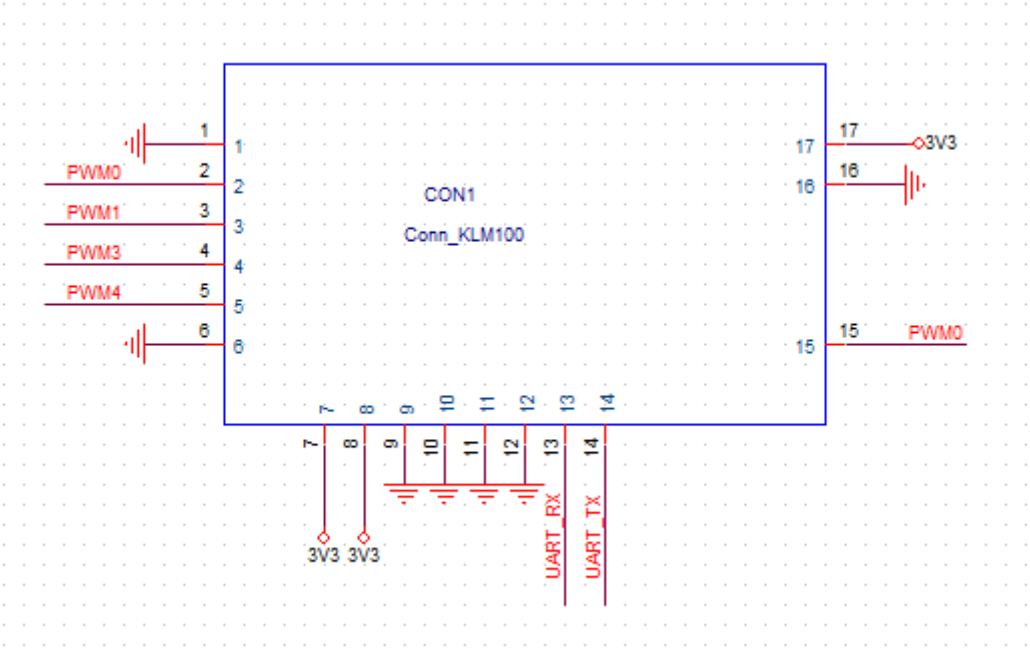
2. Interface and pinout

Interface:

Debug UART

PWM x4

Pinout:



3. Electric Feature

Power Supply	Type	DC
	Input	3.3V0.3A
	Typical	300mW
	Standby Mode	125mW

4. Mechanic Feature

Size: 24.00mm*19.00mm*2.60mm

5. Wireless Feature

Operating Frequency:2.4GHz:2412~2462MHz

Transfer Rate: 802.11b: 11/5.5/2/1 Mbps
802.11g: 54/48/36/24/18/9/6 Mbps
802.11n HT20: up to 65Mbps

Wireless Channel: ch1-ch11

Transmit Power:18dBm(max)

Antenna Type: Printed omnidirectional antenna

6. Physical and Environmental

Operating Temperature: -15℃～85℃

Storage Temperature: -15℃～85℃

Working Humidity: 10%～90% RH

7. 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 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.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter.
The module should be installed in LED lamp.
This End equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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
The final end product must be labeled in a visible area with the following:
“Contains FCC ID :TE7KLM100”.

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.