VDWIFI-RTL

VDWIFI-RTL User's Guide

Features

- 2.4Ghz - 2.5Ghz Wireless Link:
- UART/SPI interfaces
- Support for both mains-powered and battery-powered devices
- Operating Voltage: 3.0V to 3.6V typical
- Temperature Range: -40C to +85C

Integrated Networking Stack

- Integrated power management
- Integrated wireless Link

Applications

- Battery Chargers
- Power Supplies
- iOT devices

Note

Warning: Changes or modifications to this device not expressly approved by Viper Design LLC could void the user's authority to operate the equipment.

Class B Device

"NOTE: 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."*

RF Exposure

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with Maximum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec tout autre antenne ou transmetteur."

Low Power License-Exempt Device

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Labels

Host Device must contain the following label on the outside of the unit:

Contains FCC ID: 2AB7YVDW24DRTL Contains IC: 20699-VPW24DRTL

SPECIFICATIONS

Operational

Supply Voltage: **3.0V to 3.6**
Operating Temperature: **-40C to +85C**

Radio

2.4GHz:

Communication Interface:

UART (2 wire: TX, RX)

Line interface options: **Logic level, RS-232, or RS-485**
Data Format**: 8 data bits, 1 stop bit, configurable parity bits**
Baud Rate**: Configurable up to 115.2k**

SPI (4 wire logic level: SS, SCLK, MISO, MOSI)

Data Format: **8 data bits**
Data Rate:

Installation Guidance

The final host / module combination may also need to be evaluated against the FCC Part 15B criteria for unintentional radiators in order to be properly authorized for operation as a Part 15 digital device.

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that the after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements.