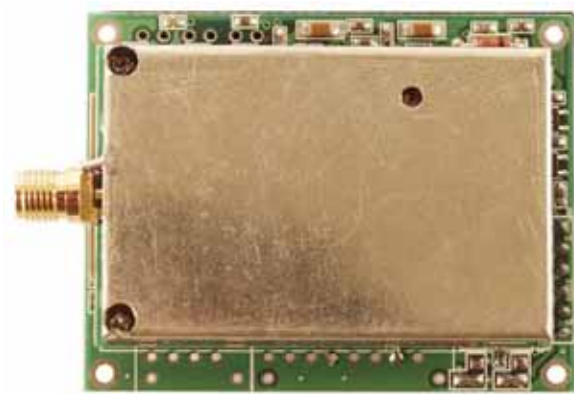


DSST-24M

Wireless Modem Module



Introduction

DSST-24M is a spread spectrum radio modem with TTL. It is designed for data acquisition and control application between host and remote sensors. It is also useful for those applications, the cable wire is inconvenient to be installed. The DSST-24M can be used in not only peer to peer mode but also multi-point structure.

Based on direct sequence spread spectrum and RF technology operating in ISM bands. The

Frequency Range is

2410.496MHz~2471.936MHz. The Channel

Spacing is 4.096MHz.

Specification

- Radio technique: Direct sequence spread spectrum
 - Number of channel: 16
 - Number of PN code: 16
 - Communication distance: Depend on external antenna, default is 300M
 - Setting Method: Software setting
 - Antenna: Can bend
 - Antenna Connector : Reverse-Polarity SMA-Jack
 - Data bit error rate: Antenna: < 1/1000@ -102dBm
 - Input voltage: 5Vdc
 - Operating temperature: -10°C~50°C
 - Operating humidity: 0~90%
- Frequency Range: 2.4GHz (2410.496MHz ~ 2471.936MHz)
 - Channel Spacing: 4.096MHz

DSST-24M SETTING :



PIN A1,A2,A3,A4=FREQUENCY SETTING,(PIN A1 IS LSB,PIN A4 IS MSB)

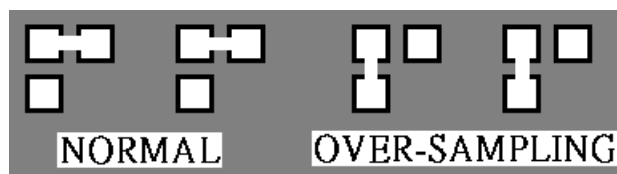
SHORT=0 OPEN=1 STEP=2.048MHz

CH1 =2410.496 MHz CH6=2420.736 MHz CH10=2428.928 MHz

PIN P7 : SHORT=PASSIVE OPEN=ACTIVE

SET6,SET7 : OPERATING MODE SETTING

CONNECT PIN FUNCTION:



P1=+5Vin, P2=GND, P3=DATA IN, P4=DATA OUT, P5=DSR, P6=GND

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 needed.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the 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.

☐

The users 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.



CAUTION:

1. To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
2. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

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

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users. For laptop installations, the antenna must be installed to ensure that the proper spacing is maintained in the event the users places the device in their lap during use (i.e. positioning of antennas must be placed in the upper portion of the LCD panel only to ensure 20 cm will be maintained if the user places the device in their lap for use) and
- 2) The transmitter module may not be co-located with any other transmitter or antenna. As long as the 2 conditions above are met, further transmitter testing 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 (for example, digital device emissions, PC peripheral requirements, etc.).

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

This transmitter module is authorized only for use in devices where the antenna may be installed such that 20 cm may be maintained between the antenna and users (for example access points, routers, wireless ADSL modems, certain laptop configurations, and similar equipment). The final end product must be labeled in a visible area with the following: "Contains **TX FCC ID: Q6M3SDSST-24M**".

RF Exposure Manual Information That Must be Included

The users manual for end users must include the following information in a prominent location "IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

Additional Information That Must be Provided to OEM Integrators

The end user should NOT be provided any instructions on how to remove or install the device.