

User's Manual

Introduction:

XenonIIF is a proprietary protocol radio frequency (2.4 GHz) module designed based on Nordic nRF24LE1 series.

Feature:

1. Xenon proprietary protocol radio frequency
2. Fully coverage of wireless applications
3. Dual Transmission Mode of RF 2.4G upon customer preference
4. Host interface: UART or I2C
5. Low power requirements: 5mA (4uA ULP standby)
6. Ultra-low peak, average and idle mode power consumption
7. Supply voltage: 1.8 to 3.6 VDC
8. Operating temperature: -25 to +75 degrees C
9. Storage temperature: -40 to +85 degrees C
10. Miniature size: 23.0 x 10 x 2.5 mm
11. Module has embedded 16 MHz and 32768 Hz clock

Applications:

Computer peripherals and I/O devices

1. Mouse
2. Keyboard
3. Multi-touch trackpad

Interactive entertainment devices

1. Remote control
2. 3D Glasses
3. Gaming controller

Personal Area Networks

1. Health/fitness sensor and monitor devices
2. Medical devices
3. Key-fobs + wrist watches

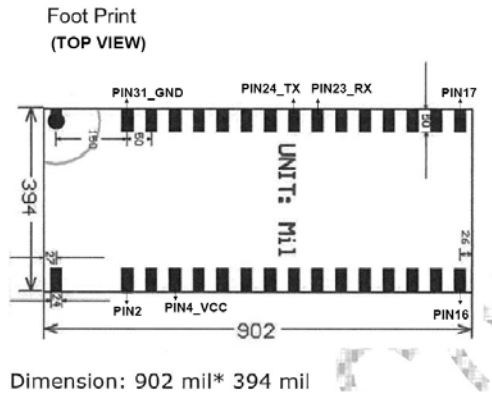
Remote control toys

Specification:

Part Name	XenonIIF
Part Number	XenonIIF
Brand Name	XenonBlue
Category	Xenon RF Module
Type	Transceiver / Controller
Band	2.4 GHz, ISM band
CPU	16 MHz 8-bit Enhanced 8051 processor
Flash	16kB
Ram	1kB
Multi Frequency	Yes
Interface	UART (CTS/RTS) Two-wire Master (I2C compatible)
Package-Case	SMT
Low Supply Voltage	1.8V
Typical Supply Voltage	3.0V
High Supply Voltage	3.6V
Transmit Current	5mA (4uA ULP standby)
Receive Current	5mA (4uA ULP standby)
Size – Width	10.0 mm
Size – Length	23.0 mm
Size – Height	2.5 mm
RF Interface	Built-In Patterned Antenna
RF Shield	Yes
Pin Count	31 available
Pin Pitch	1.27mm
On-air compatibility	nRF24LE series

UART interface :

Baud rate	4800
Data bit	8
Parity	No
Start bit	1
Stop bit	1



PIN define :

PIN Number		PIN Number	
PIN 4	VCC	PIN 11	Data full
PIN 31	GND	PIN 20	Data in
PIN 23	RX		
PIN 24	TX		

Warranty Policy

1. This device is guaranteed against manufacturing defects for one full year from the original date of purchase.
2. This warranty is valid at the time of purchase and is non-transferable.
3. This warranty must be presented to the service facility before any repair can be made.
4. Sales slip or other authentic evidence is required to validate warranty.
5. Damage caused by accident, misuse, abuse, improper storage, and/or uncertified repairs is not covered by this warranty.
6. All mail or transportation costs including insurance are at the expense of the owner.
7. Do not send any product to service center for warranty without a RMA (Return Merchandise Authorization) and proof of purchase. Ensure a trackable method of delivery is used (keep tracking number).
8. Warranty is valid only in the country of purchase.
9. We assume no liability that may result directly or indirectly from the use or misuse of these products.
10. **This warranty will be voided if the device is tampered with, improperly serviced, or the security seals are broken or removed".**

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following " Contains
TX FCC ID: 2ACORXENONIIF

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.

IMPORTANT NOTE:

This module is intended for OEM integrator.

The OEM integrator is still responsible for the FCC compliance requirement of the end product, which integrates this module.

Appropriate measurements (e.g. 15 B compliance) and if applicable additional equipment authorizations (e.g. Verification , Doc) of the host device to be addressed by the integrator/manufacturer.

USERS MANUAL OF THE END PRODUCT:

In the users manual of the end product, The end user has to be informed that the FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied. The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the

user's authority to operate this equipment. If the size of the end product is smaller than the palm of the hand, then additional FCC part 15.19 statement is required to be available in the users manual: This device complies with Part 15 of 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.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following " Contains TX FCC ID: 2ACORXENONIIIF". If the size of the end product is larger than the palm of the hand, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of 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.