

## **UbiDuo UbiDuo Information**

1. The UbiDuo operates at 2.4 GHz in the ISM (Industrial, Scientific, and Medical) band, using the IEEE 802.15.4 physical layer (PHY).
2. The UbiDuo implements peer-to-peer networking.
3. The upper layers of the chat protocol are proprietary to sComm.
4. Maximum RF transmit power is 100 mW.
5. Data packets between radios consist of IEEE 802.15.4 standard protocol and the payload.
  - a. Payload is defined as the chat information typed on the keyboard, the User ID, and other user specific information. Confidentiality and security are maintained by encrypting the payload.
  - b. In other words, the payload is encrypted but not the protocol.
6. The UbiDuo utilizes the "Blowfish Encryption Algorithm". It is a "Feistel Cipher" which encrypts 64 bits at a time using a 448 bit key.
  - a. Web site link for reference:  
<http://www.schneier.com/blowfish.html>
7. The UbiDuo has FCC class B approval for residential and commercial operation.
8. The UbiDuo has UL and CUL approval.
9. The UbiDuo meets FIPS 140 - Level 1