

## CodeXML Bluetooth Modem



The CodeXML Bluetooth Modem features a Bluetooth® 2.4 GHz wireless transceiver enabling reliable two-way communication and optional security between Code Readers (CR2 or CR3) and a host computer or system that supports Keyboard, USB or Serial input.

Simply plug the modem into your computer and the unit is ready. There is no need to load any drivers (including Bluetooth Manager drivers). The CodeXML Bluetooth Modem is a simple hardware solution for customers who wish to enjoy the benefits of cordless data collection without modifying existing applications or installing software. The radio firmware is easily upgradable.

The modem supports Bluetooth firmware V1.2, which is a proven, reliable method for replacing cables with secure wireless communications in a wide variety of devices. The features of adaptive frequency hopping and rapid creation of new connections provides unsurpassed efficiencies in wireless data operations when co-sited with 802.11b systems.

Security set-up is quick and easy. A utility generates a 32-bit key using a user-determined phrase. By downloading the keys directly to the reader and modem, keys are never wirelessly transmitted, thereby keeping your network secure.

Additional security is employed when using the QuickConnect features of the CodeXML Bluetooth Modem, pairing a reader to a single computer or system. By simply scanning the QuickConnect code on the modem label your reader will automatically connect to the computer or system to which it is assigned. You can begin sending data in seconds. Compatible computer applications include:

- Windows NT, XP & 2000
- Linux Applications
- Programmable Logic Controllers
- Unix Applications
- Legacy Terminals
- All Other OS



\* CodeXML Bluetooth Modem for use with CR2 or CR3 Readers

Contact a Code representative at (801) 495-2200, or by email to [sales@codecorp.com](mailto:sales@codecorp.com) to inquire about the CodeXML Bluetooth Modem.

### Features & Benefits

#### Modem Features & Benefits:

- Bluetooth to Keyboard, USB or Serial Output
- Seamless integration with Code Readers
- Simple Installation: Simply plug-in the modem and start transmitting wireless data
- Extended Range: Transmit and receive Bluetooth signals up to 100 meters (300 feet)
- Mountable to working surfaces (four drilled holes in casing)

#### Security Features & Benefits:

- 32-bit encryption key
- Symmetric data encryption
- Dynamic key generation protects against brute force attacks
- No wireless key exchange
- User-defined pass-phrase generator and downloadable utility

## General Specifications

Case Size	3.2" x 2.75" x 1" high with 4 mounting drilled holes (2 on each side) Note: Use #4 tapered flathead screws when securing modem
Frequency	2.4 GHZ - ISM band
Bluetooth Class	CodeXML Modem contains Class I Bluetooth Radio; Communicates with Class I, II or III Bluetooth Radios
Emission Type	Frequency hopping spread spectrum (FHSS GFSK)
RF Data Rate	1 Mbps
Data Throughput	115 kbps maximum
Operating Temperatures	0° to 70° C (commercial)
Power Source	5V DC adapter included. USB continuous Current Draw: Min 57 mA (connected); Max 100 mA (searching for connection)



## Range (Distance)

100 Meters (300 feet) - Line of sight

## Connectors

**Note:** CodeXML Modem supports all communication modes. Select necessary modem cable for enabling desired communication method:

### Keyboard Wedge

Standard PS2 connector

Settings Include: US English Keyboard (Leading 0; No Leading 0; or ctrl+char), Alt+Keypad Numbers, French Keyboard, German Keyboard, Japanese Keyboard or Custom\*

Cable: CR2AG-C12

• No Power Supply needed - Cable ordered separately

### Serial (DB9) Connection

Standard DB9 connector

Default Baud Rate 9600 (300-115,200 baud rate capable)

Default Data Bits 8 (7 bits capable)

Default Parity None (Even, Odd parity capable)

Default Stop Bits 1 (2 stop bits capable)

Hardware Flow Control None

Cable: CR2AG-C1 or CR2AG-C3

• Power Supply required- Cable and Power Supply ordered separately

### USB Connection

Standard USB connector for Keyboard Input

Settings Include: US English Keyboard (Leading 0; No Leading 0; or ctrl+char), Alt+Keypad Numbers, French Keyboard, German Keyboard, Japanese Keyboard or Custom\*

Cable (6 ft.): CR2AG-C0

Cable (12 ft.): CR2AG-C20

• No Power Supply needed- Cable ordered separately

\* For customized settings, minimum quantities and lead times may apply.

## Antenna

Embedded (internal) antenna

## Bluetooth Device

V1.2; SPP (Serial Port Profile) - Slave

## Security

- 32-bit encryption key
- Symmetric data encryption
- User-defined pass-phrase generation
- No wireless key exchange
- Downloadable utility simplifies security set-up
- CodeXML Modem's QuickConnect Code feature pairs reader to host computer or system



**code**

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Specifications  
subject to change  
without notice.