

CodeXML® Bluetooth® Modems



CodeXML® M3 Bluetooth® Modem



CodeXML® M2 Bluetooth® Modem

Features & Benefits

- Transmit and receive Bluetooth signals up to 100 meters (300ft)
- 128-bit Bluetooth Authentication and Encryption (M3 modem)
- 32-bit Encryption (M2 modem)
- User-defined pass-phrase generator and downloadable utility
- Bluetooth to Keyboard, USB or RS232 output (M2 modem has PS/2 cable option)
- Seamless integration with Code bar code readers
- Compatible with Windows NT, XP & 2000, Linux Applications, Programmable Logic Controller, Unix Applications, and legacy terminals
- Simple installation: Simply plug-in the modem and start transmitting wireless data
- CodeXML® M3 Bluetooth® Modem is compatible with three Code bar code readers simultaneously (CodeXML® M2 Bluetooth® Modem connects one Code reader at a time)

Overview

CodeXML® Bluetooth® Modems use Bluetooth technology for secure and reliable communication between Code bar code readers and a host computer, or system, that supports USB Keyboard and RS-232 input (CodeXML® M2 Bluetooth® Modem also supports PS/2 cables).

CodeXML® Bluetooth® Modems are simple hardware solutions for customers who wish to enjoy the benefits of wireless data collection without modifying existing applications or installing software. Simply plug the modem into your computer and the unit is ready. There is no need to load any drivers (including Bluetooth drivers).

The modems supports Bluetooth specification 2.0 + EDR 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 provide unsurpassed efficiencies in wireless data operations when co-sited with 802.11x systems. The CodeXML® M3 Bluetooth® Modem is compatible with three Code bar code readers simultaneously, and the CodeXML® M2 Bluetooth® Modem is compatible with one reader at a time.

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 and can begin sending data in seconds.

CodeXML[®] Bluetooth[®] Modem Specifications

General Characteristics

Modem Dimensions:	3.2" x 2.75" x 1" 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:	Contains Class I Bluetooth Radio; Communications with Class I or II Bluetooth Radios
Emission Type:	Frequency hopping spread spectrum (FHSS GFSK)
RF Data Rate:	1 Mbps
Data Throughput:	115 kbps maximum
Power Source:	5V DC adapter included. USB continuous current draw 57mA minimum, 100mA maximum (when searching for connection)

Bluetooth Characteristics

Bluetooth Range:	Class II: 10 Meters (30 feet) - Line of sight Class I: 100 Meters (300 feet) - Line of sight
Antenna:	Embedded internal antenna
Bluetooth Specifications:	V2.0 + EDR; SPP (Serial Port Profile) - Slave
Security:	32-bit encryption key (M2 Modem) 128-bit encryption key (M3 Modem) User defined encryption key option

User Environment

Operating Temperature: 0° to 70° C / 32° to 158° F (commercial)

Connectors

CodeXML[®] M2 Modem: USB Keyboard, PS/2, RS232

CodeXML[®] M3 Modem: USB Keyboard and RS232

USB Connection: Keyboard Input Settings Include: US English Keyboard (Leading 0; No Leading 0; or ctrl+char), Alt+Keypad Numbers, French Keyboard, German Keyboard, Japanese Keyboard

Standard DB9 Connection: Default Baud Rate 9600 (9600-115,200 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

