

**American Microsystems, Ltd.**  
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### **M6300 Product Operation:**

American Microsystems' M6300 is the host receiver for the companion M6000 wireless barcode decoder. This system provides a means of wireless transmission of barcode data and then of receiving this data at the M6300 host. The data is sent from the M6300 as simulated keyboard keystrokes via the USB interface to an IBM compatible PC. The intended uses for this product include point-of-sale and inventory applications in a business or industrial environment.

The M6300 consists an Atmel ATMega103 microcontroller operating at 4 MHz, a Cypress CY7C63001A USB microcontroller operating at 6 MHz, a voltage regulator for RF power, an interface for connecting an undecoded barcode reading device (e.g. laser, wand, or CCD), a USB interface, and finally of an RF Monolithics TR1000 radio frequency transceiver with a printed circuit board (PCB) based antenna.