

Functional Description:

The Nike+ FuelBand is a device worn on the wrist that monitors daily activity level and stores this data. The user can download the data to a mobile device with Bluetooth capability.

Radio:

This product uses a Bluetooth wireless communications system to exchange data between the product and a mobile device. The radio is a CC2564 by Texas Instruments, and the Bluetooth stack is provided by Stonestreet One. The antenna for the system is a monopole etched directly into the circuit substrate. Pairing and connecting are operations initiated by the user through the single available button on the product, and when not exchanging data with the cellular phone, the product negotiates for operating in a low power Sniff mode. After any period of inactivity (~2 minutes), the product will terminate the Bluetooth connection.

Modulation modes:

This product has three modulation modes: GFSK, pi/4DPSK, and 8DPSK. The device is a data-only device.

RF Power

The Nike+ FuelBand has a maximum peak conducted rf output power of 3 mW at the antenna port.