Interfacing

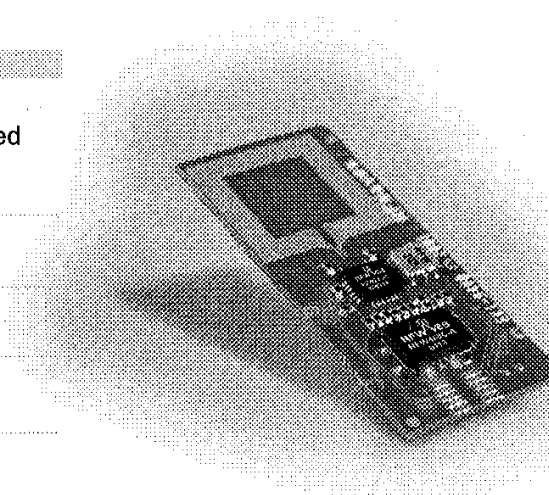| Name	Characteristic
Vcc	A regulated voltage of 2.7-3.6Volts with at least 25mA current sourcing is required
GND	Apply the supply ground to this pin
Tx/Rx	Vcc for Tx (transmit) mode GND for Rx (receive) mode
ACT	Vcc on working mode GND standby mode
TxD/RxD	In Tx mode: data input pin In Rx mode: data output pin

Main characteristics (typical):

Parameter	Value
Central frequency of operation	2440 MHz
Modulation technique	DSSS
Maximum bit rate	1 Mbps
Minimum bit rate	10 Kbps
Processing gain	10.7 dB
Band width	35 MHz - 20dB
Peak output power	- 58.90dBm
Rx sensitivity for BER = 10^{-4}	-80 dBm
Range with - 5dBi antenna	>10 m (~33ft) indoor
Current consumption - Rx	34 mA
Current consumption - Tx, no transmission	7 mA
Current consumption - Tx, 100Kbps	10 mA
Current consumption - Tx, 1Mbps	34 mA
Standby current	2.5 µA
Wake up time	20 µSec
Supply voltage	2.7 ... 3.6 V
Temperature range	-5º... +60º C

Features are subject to revisions or changes without notification.

RFWAVE

When the receiver receives the start signal from computer, the IC U3 will drive the RF MODULE to act data transmission with 8090 controller. IC U2 decode RF signal into USB signal which will be transferred to computer for game control.