

## EZWFDU02

### WLAN 802.11b USB adapter Product Information Data Sheet

November, 2003

#### Device features

- IEEE 802.11b compliant
- USB 1.1 compliant
- USB to A-Type host interface
- 64-, 128 bit WEP
- Frequency Range 2412 to 2484 GHz
- USB powered @5.0V
- Indoor range of upto 300 feet over USB.
- Outdoor range of upto 1750 feet over USB.
- Supports Device Firmware Upgrade over USB.
- Operating Temperature Range of 0° C to 70°C
- Storage Temperature Range of -20° C to 85°C
- Dimension  
(30.0mm x 13.3mm x 78.5mm) w/o cradle

#### General Description

The EZWFDU02 is a low-cost wireless USB adapter with USB 1.1 interface. It is capable of data transfer rates of up to 11 Mbps. It can operate with other 802.11b WLAN compliant wireless adapters, access points and routers.

The EZWFDU02 USB adapter is based on the Intersil Prism 3 chipset.

#### Key Features

##### Radio

- 14 dBm output power
- Receiver sensitivity:
  - -93 dBm @1Mbps
  - -91 dBm @2Mbps
  - -88 dBm @5.5Mbps
  - -85 dBm @11Mbps
- 39 dB Adjacent Channel Rejection @8%PER

#### Applications

- Ad-Hoc Networking
- Infrastructure Networking

##### Baseband

- Data Rates of 1-, 2-, 5.5-, 11Mbps
- Modulation Techniques supported:
  - CCK(11Mbps)
  - CCK(5.5Mbps)
  - DQPSK(2Mbps)
  - DBSK(1Mbps)
- 64-, 128 bit WEP encryption

Block Diagram

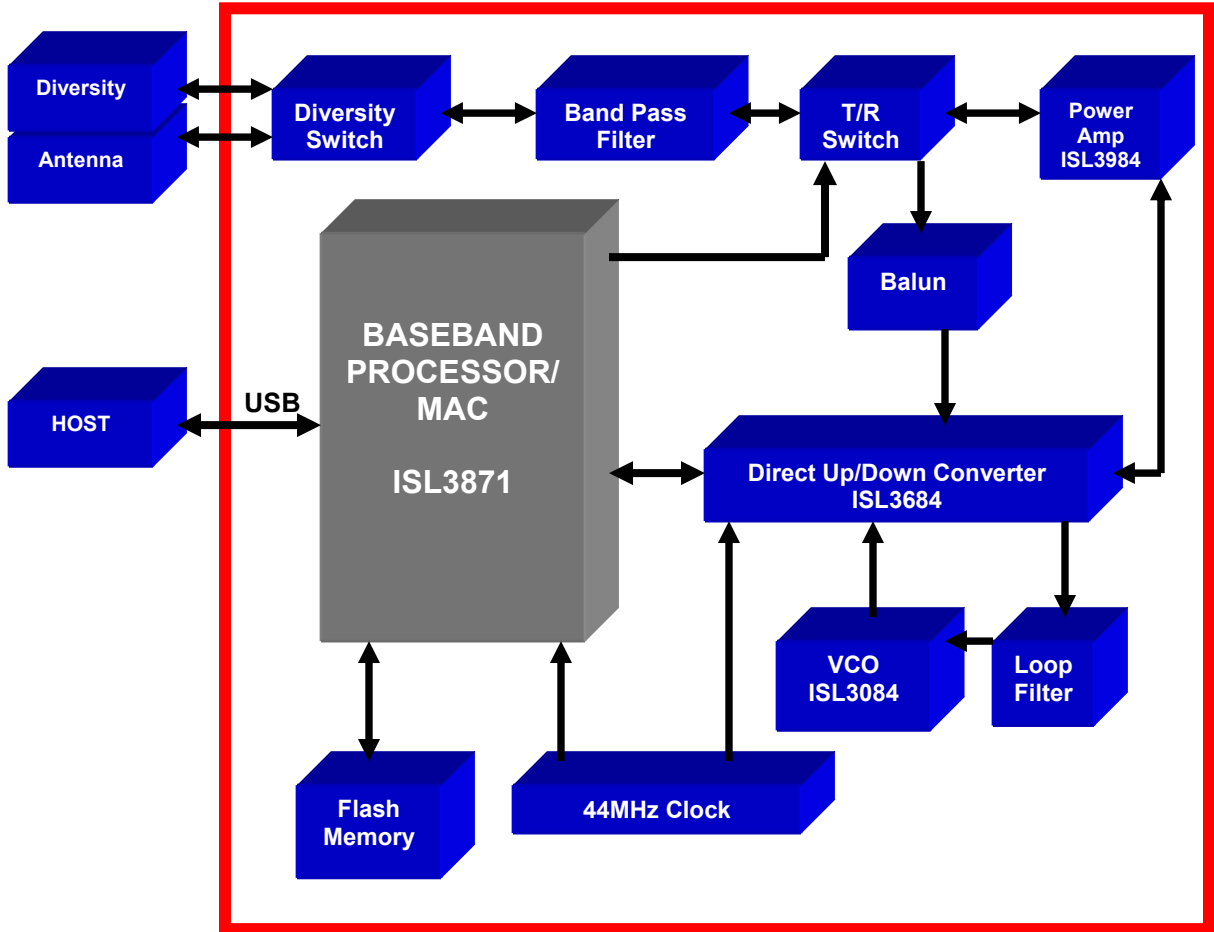


Figure 1: EZWFDU01 Block Diagram

## Device Terminal Functions

Pin	Signal
1	+5VDC
2	-USB
3	+USB
4	GND

**Table 1:** Data Terminal Functions

## Electrical Characteristics

Radio Characteristics,			
Receiver	Data Rate(Mbps)	Typ	Unit
Sensitivity	1	-93	dBm
	2	-91	dBm
	5.5	-88	dBm
	11	-85	dBm
Input Third Order Intercept Point, Low Gain		0	dBm
Adjacent Channel Rejection at 8% PER		39	dBm
Transmitter			
RF Transmit Power		14	dBm

**Table 2:** Radio Characteristics

Current Consumption,		
Mode	Typ	Unit
Receive	225	mA
Transmit	235	mA
IEEE802.11 Power Save Mode	65	mA

**Table 3:** Current Consumption

## Applications

### EZIX WLAN AD-HOC NETWORKING



### EZIX WLAN INFRASTRUCTURE NETWORKING (WLAN ACCESS POINT)

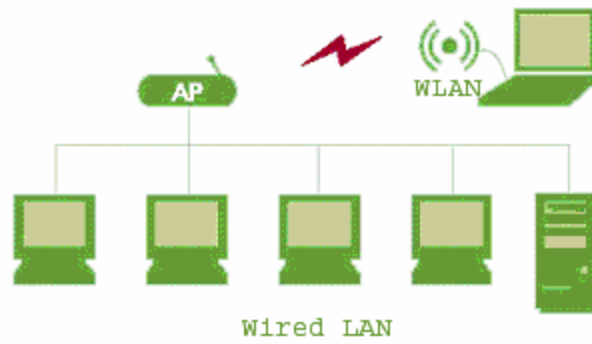
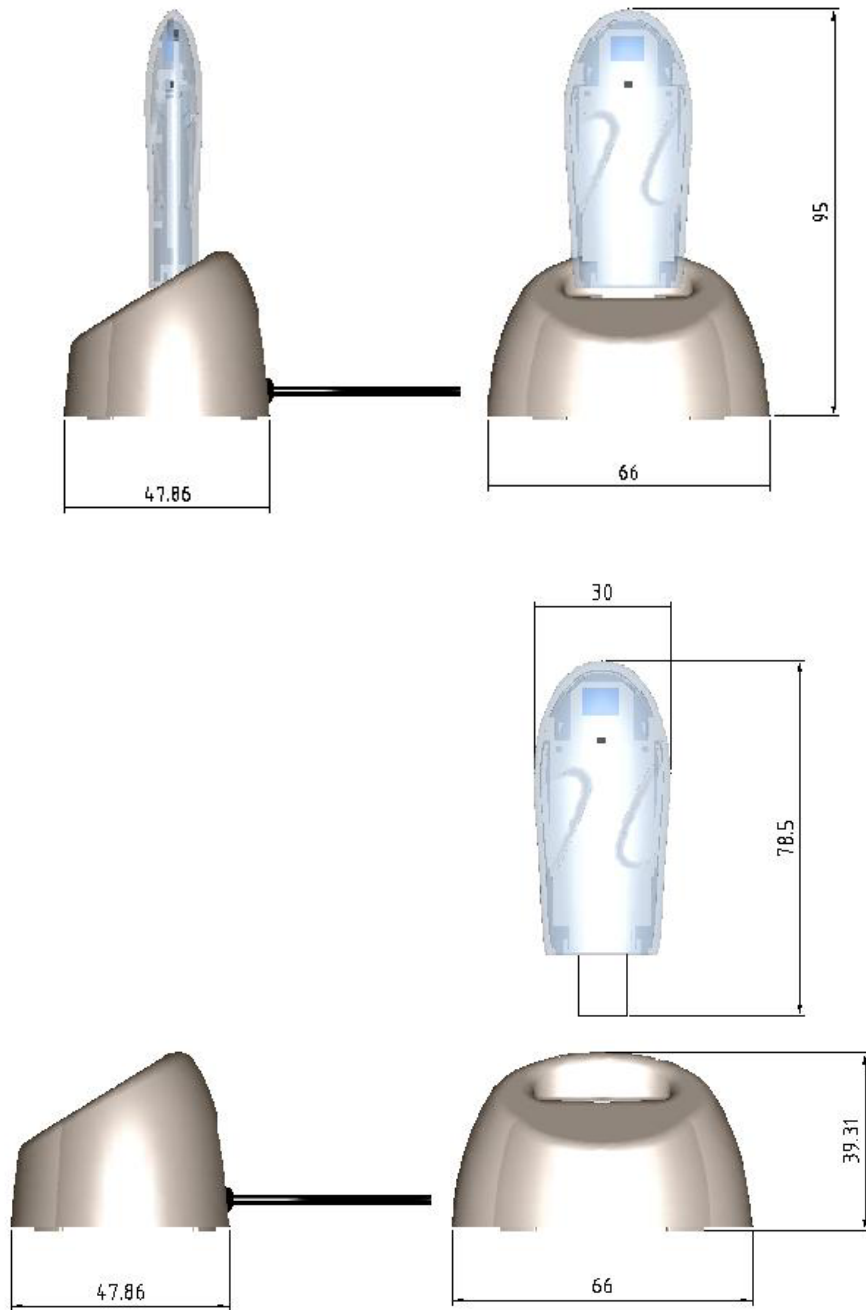


Figure 2: EZWFDU01 Basic Applications

### Mechanical Drawing



\*units in mm

**Ordering and Contact Information**

Order Number	Description
EZWFDU02	MOQ is 1k. Leadtime: 8-10 weeks.



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