

## F5d8001 PRINCIPLE

### 1. Introduction

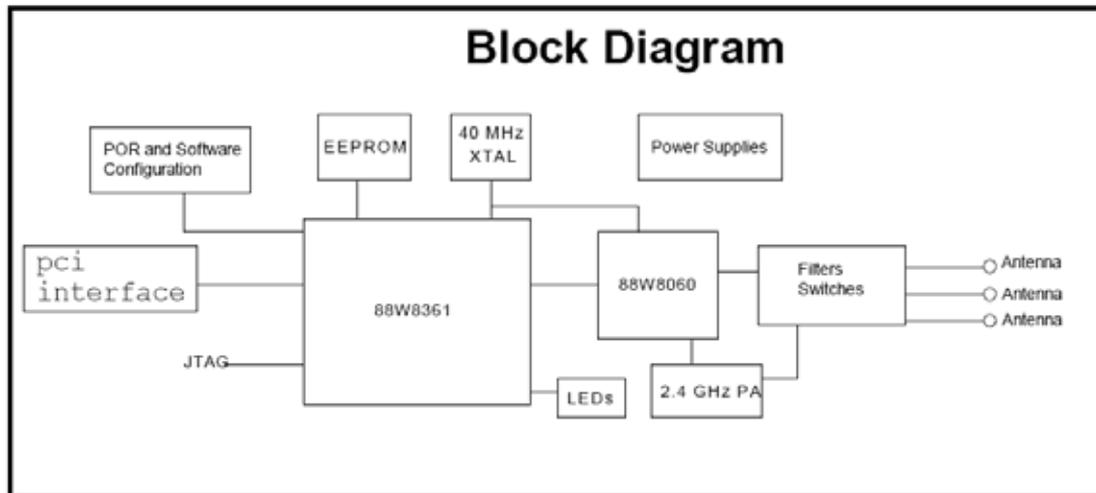
The Belkin F5D 8001 Wireless Desktop Network Card connects your desktop computer to your wireless network. The F5d8001 designed support to high performance data rates as well as 802.11g payload data rates of 6,9,12,24,36,54, Mbps and 802.11b data rate 1,2,5.5, and 11 Mbps. Marvell devices are both enhanced Wireless Consortium (EWC) and draft-IEEE 802.11n compliant.

### Feature

Feature	
Draft-IEEE 802.11N/EWC performance data rates	YES
IEEE 802.11g/b data rates	
Processor	
Integrated Marvell Feroceon CPU with TCM	
CPU Speed	176MHZ
Independent DMA (4-channel)	YES
Networking	YES
IEEE 802.11e Quality of Service (Qos)	YES
IEEE 802.11h (DFS and TPC)	YES
IEEE 802.11j channels (Japan)	YES
Frame-by-Frame long/short preamble	YES
Transmit rate-based power control	YES
DSSS/OFDM	YES
MIMO transmit chains	2
MIMO receive chains	3
Antenna Diversity	YES
Security	
64- and 128-bit WEP with hardware tkip processing (WPA)	YES
IEEE 802.11i AES/CCMP (WPA2)	YES

## 2. Block Diagram

The HW Block Diagram as below:



	Chipset	Quantity
MAC Base Band	88W8361	1
RF	88W8060	1
RF PA	RMPA2458	2
LED		1

3.

### Use the Belkin Wireless Networking Utility

#### 3.0. Insert

##### Insert the Card into your Computer

3.1 Insert the Installation Software CD into your CD-ROM drive.

3.2 The Belkin Setup Utility screen will automatically appear. (This may take 15–20 seconds.) Click "install" to start the installation.

3.3 After the software installation is finished, shut down the computer. Unplug power cable and open computer's case. Insert PCI Card to an empty PCI slot. Connect the external antenna to the back of the Card. Turn power On.

3.4 After restarting your computer, double-click the Belkin Wireless Networking Utility icon on the desktop screen.

3.5 The Belkin Wireless Networking Utility screen will appear.

3.6 Select a network to connect to from the "Available Networks" list and click "Connect".

3.7 The Belkin Wireless Networking Utility icon can also be found on the system tray.