

CY66 Operation description

This product is for 802.11n WiFi mobile AP (Model No: CY66). The CY66 is based on Ralink RT5350 chip solution and complied with IEEE802.11b/g/n standard from 2.4~2.5GHz.

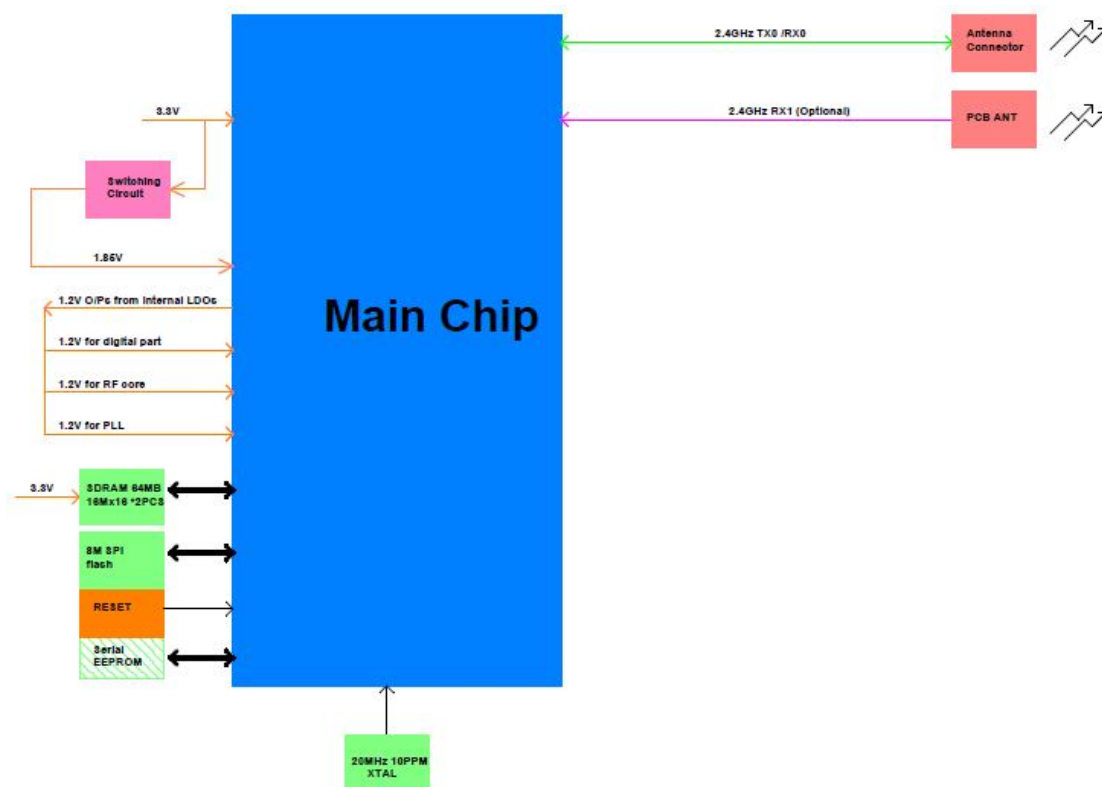
CY66 offers absolute interoperability with different vendors' 802.11b/g/n STA through the wireless LAN with seamless roaming, fully interoperability, and advanced security with WEP/WPA/WPA2 standard.

CY66 is build-in 10/100 Ethernet PHY/switch for the wire LAN application.

CY66 is 18-pin connector supporting USB 2.0 interface for the external storage application, such as the USB flash driver, USB memory card reader and USB HDD.

CY66 build-in the hi-efficiency Chip antenna with Omni-direction receive angle.

Module Block Diagram:



Product Features

- 1、Compatible with IEEE 802.11b/g/n standard.
- 2、Operation at 2.4~2.5GHz frequency band to meet worldwide regulations
- 3、Maximum reliability, throughput and connectivity with automatic data rate switching
- 4、Supports WEP, WPA, WPA2 mode.
- 5、Friendly user configuration and utilities.

- 6、Support 3.3v DC power input.
- 7、Software AP support iOS4 or later, Android 3.4.x or later.
- 8、Build-in the USB 2.0 interface
- 9、Build- in the Ethernet 10/100 PHY/switch interface.
- 10、Build-in the Chip antenna.

Specification.

Standard IEEE 802.11b/g/n

Frequency Band 2400~2483.5MHz ISM band

Data Transfer Rates 11N:150/135/121.5/108.81.54/40.5/27/13.5Mbps

130/117/104/78/52/39/26/Mbps

65/58.5/52./39/26/19.5/13/6.5Mbps

11g: 54/48/36/24/18/12/9/6 Mbps (Dynamic)

11b: 11/5.5/3/2/1 Mbps (Dynamic)

Channel: 11 Channels for United State(FCC)

13 Channels for Europe (ETSI)

13 Channels for Japan (TELEC)

Extend Frequency: DSSS

Modulation Type: OFDM

RF Power: 11b: 15 +/- 1.5dBm

11g: 11 +/- 1.5dBm

11n: 11 +/- 1.5dBm

Receive Sensitivity: 11b: Typical -70 +/- 1.5dBm at 11Mbps @8%PER

11g: Typical -68 +/- 1.5dBm at 54Mbps @10%PER

11n: Typical -64 +/- 1.5dBm at 54Mbps @10%PER

Wireless: 64/128 bit

WEP,WPA-PSK/WPA2-PSK

Antenna connector Type: 2 coaxial cable antenna connector

TX/RX ANT *1,

RX only ANT *1.

Operating Voltage: 3.3VDC +/- 10%

Operation Temperature: 0°C to +50°C.

Power Consumption: Full Load(Upload) 400~500mA

Full Load(Download) 300~400mA

Pin definition

J3: General interface

Pin no.	Name	In/Out/P/G	Founction
1	3.3VD	P	3.3V power input
2	3.3VD	P	3.3V power input
3	GND	G	Ground pin
4	GND	G	Ground pin
5	LOW_BATT_DET	Input	Low battery detection
6	USB_SEL	Output	USB bus selection
7	USB_DAS_DET	Input	USB device detection
8	LOW_BATT_LED	Output	Low battery LED control
9	WPS_PBC	Input	WPS switch input
10	RST_PBC	Input	RST switch input
11	WLAN_LED	Output	Wireless LED control
12	GND	G	Ground pin
13	GND	G	Ground pin
14	UPHY0_PADM	I/O	USB data pin Data-
15	N3	I/O	GPIO N3
16	UPHY0_PADP	I/O	USB data pin Data+
17	P2	I/O	GPIO P2
18	GND	G	Ground pin

J4: Console interface

Pin no.	Name	In/Out/P/G	Founction
1	3.3VD	P	3.3V power output
2	UART_RX	I	UART Lite RXD
3	UART_TX	O	UART Lite TXD
4	GND	G	Ground pin

J5: RJ45 interface

Pin no.	Name	In/Out/P/G	Founction
1	TXOP0	O	10/100 PHY Port TXP
2	TXOM0	O	10/100 PHY Port TXN
3	RXIP0	I	10/100 PHY Port RXP

4	RXIM0	I	10/100 PHY Port RXN
5	1.8VD	P	1.8V power input
6	GND	G	Ground pin
7	3.3VD	P	3.3V power output

J9: For the vertical assmebly use only

Pin no.	Name	In/Out/P/G	Founction
1	GND	G	Ground pin
2	GND	G	Ground pin
3	GND	G	Ground pin
4	GND	G	Ground pin