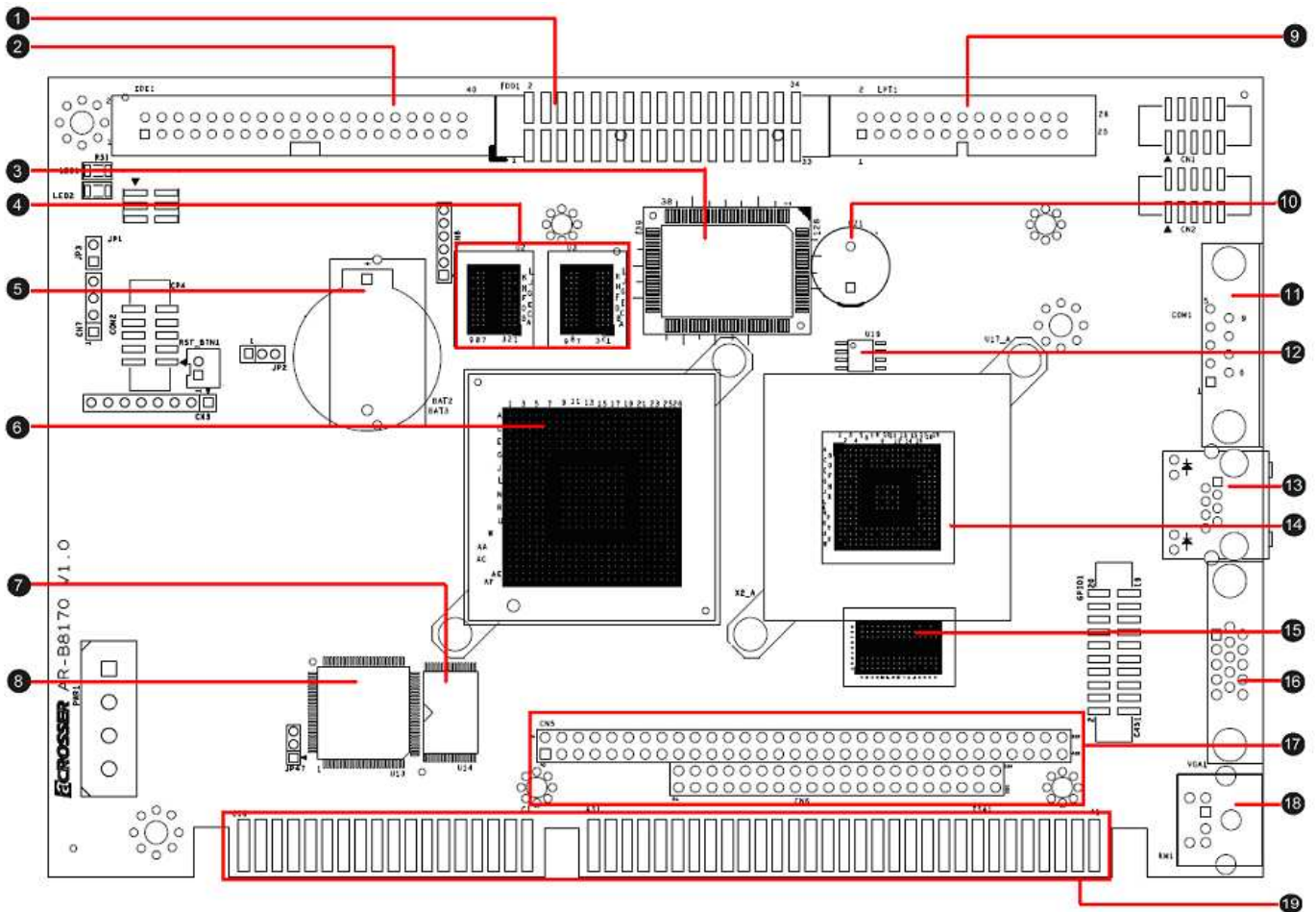


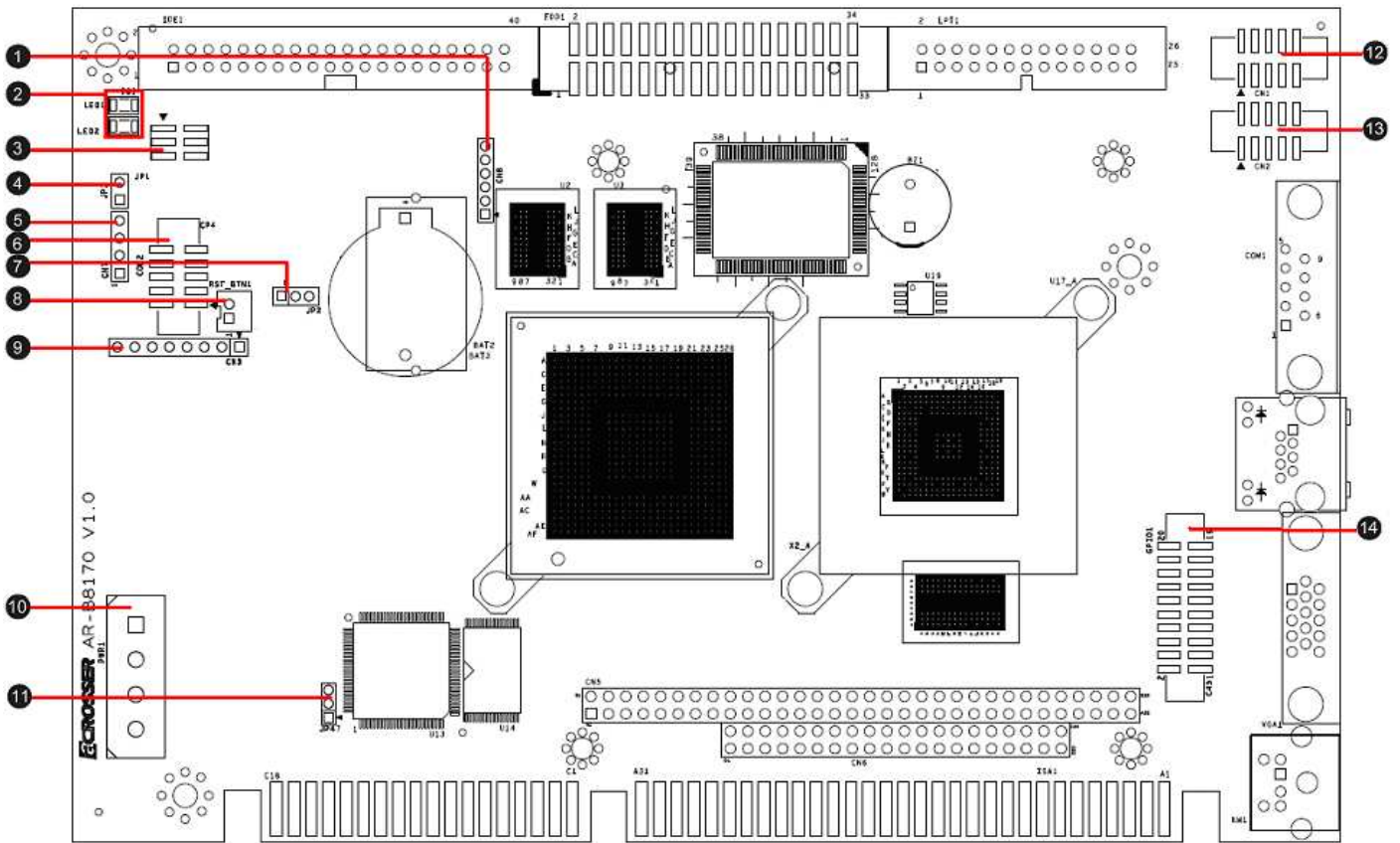
# AR-B8170 Quick Manual

## 1. Mainboard illustration (Top Side)



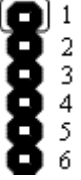



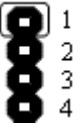

① <b>FDD1 (Optional)</b> FLOPPY CONNECTOR	⑧ <b>U13</b> CPLD	⑮ <b>U18</b> GPU DDR2 64MB
② <b>IDE1</b> 39PIN IDE CONNECTOR	⑨ <b>LPT1</b> PRINTER PORT	⑯ <b>VGA1</b> VGA DB15 CONNECTOR
③ <b>U31 (Optional)</b> SUPER IO W83697HG	⑩ <b>BZ1</b> BUZZER	⑰ <b>CN5/CN6</b> PC104 CONNECTOR
④ <b>U2, U3</b> CPU DDR2 128MBx2	⑪ <b>COM1</b> RS232 DB9 CONNECTOR	⑱ <b>KM1</b> Keyboard/Mouse CONNECTOR
⑤ <b>BAT3</b> BATTERY for RTC/SRAM	⑫ <b>U19</b> VGA SPI FLASH 512KB	⑲ <b>ISA1</b> ISA BUS
⑥ <b>U1</b> CPU Vortex DX 800MHz	⑬ <b>LAN1</b> Ethernet 10/100	
⑦ <b>U14</b> SRAM 256KB / 512KB	⑭ <b>U17</b> GPU XGI z9s	

## 2.Pin definitions & Jumper settings (Top Side)



① <b>CN8</b> JTAG CONNECTOR	⑥ <b>COM2</b> RS232 CONNECTOR	⑪ <b>JP4</b> SRAM Address selection
② <b>LED1/LED2</b> SYSTEM STATUS LED	⑦ <b>JP2</b> Clear CMOS DATA	⑫ <b>CN1</b> USB 0/1 CONNECTOR
③ <b>JP1</b> RS232/422/485 SELECTION	⑧ <b>RST_BTN1 (Optional)</b> RESET BUTTON	⑬ <b>CN2</b> USB 2/3 CONNECTOR
④ <b>JP3</b> RS422/485 TERMINATION SELECTION	⑨ <b>CN3</b> Reserved	⑭ <b>GPIO1</b> GPIO 0/1 CONNECTOR
⑤ <b>CN7</b> RS422/485 CONNECTOR	⑩ <b>PWR1</b> POWER INPUT	

## 2.1 Connectors and Jumpers setting

2.1 CN8		2.2 LED1/LED2																																			
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**2.7 JP2**



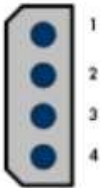
JUMPER	FUNCTION
1-2(default)	NORMAL
2-3	Clear CMOS

**2.8 RST\_BTN1 (OPTION)**



RST_BTN1	FUNCTION
SHORT	NORMAL
OPEN	RESET

**2.10 PWR1**



PIN	FUNCTION
1	+12V
2	GND
3	GND
4	+5V

**2.11 JP4**



JUMPER	ADDRESS
1-2	D0000
2-3(default)	D8000

**2.12-13 CN1/CN2**



PIN	FUNCTION	PIN	FUNCTION
1	VCC	2	VCC
3	D0-	4	D1-
5	D0+	6	D1+
7	GND	8	GND
9	GND	10	GND

**2.14 GPIO1**



PIN	FUNCTION	PIN	FUNCTION
1	GPIO00	2	VCC
3	GPIO01	4	GPIO07
5	GPIO02	6	GPIO06
7	GPIO03	8	GPIO05
9	GND	10	GPIO04
11	GPIO10	12	VCC
13	GPIO11	14	GPIO17
15	GPIO12	16	GPIO16
17	GPIO13	18	GPIO15
19	GND	20	GPIO14

### 3. Mainboard illustration (Bottom Side)

SD1 Secure Digital Memory Card Slot

