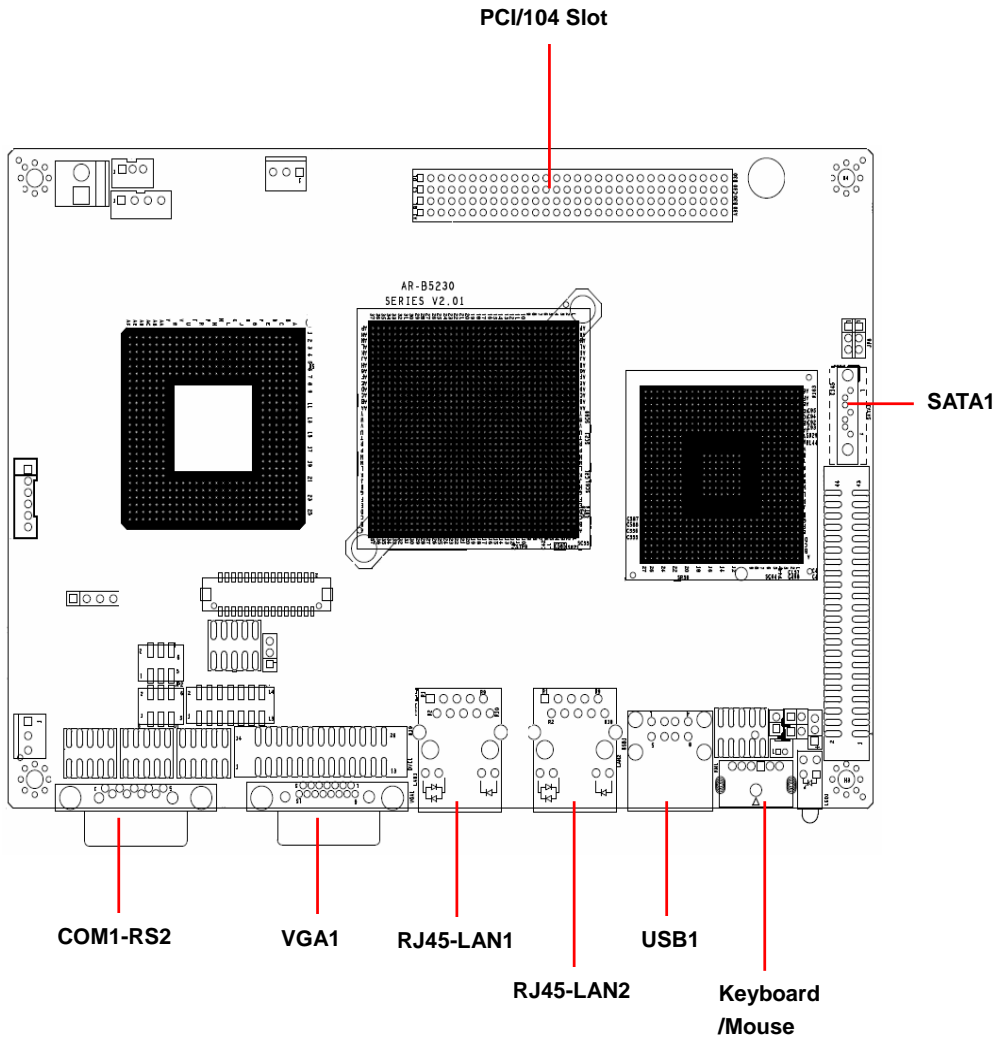
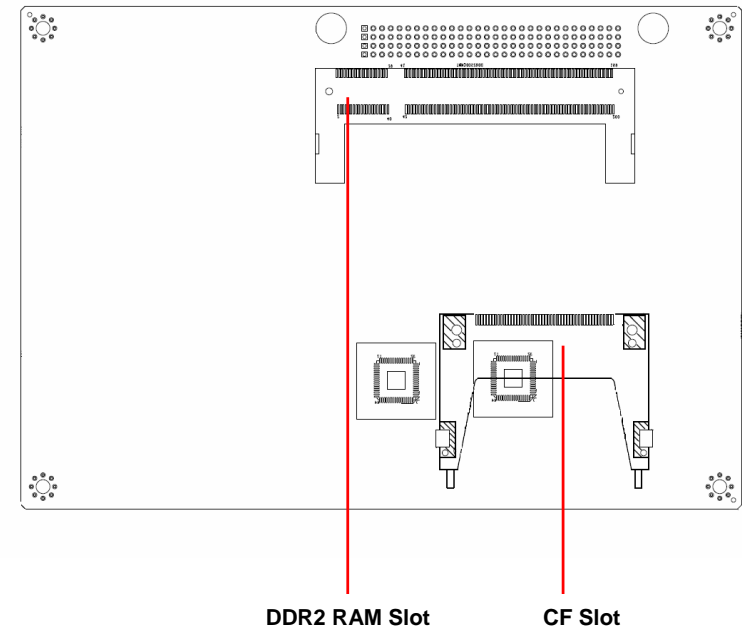


# AR-B5230 Series Quick Manual V2.0

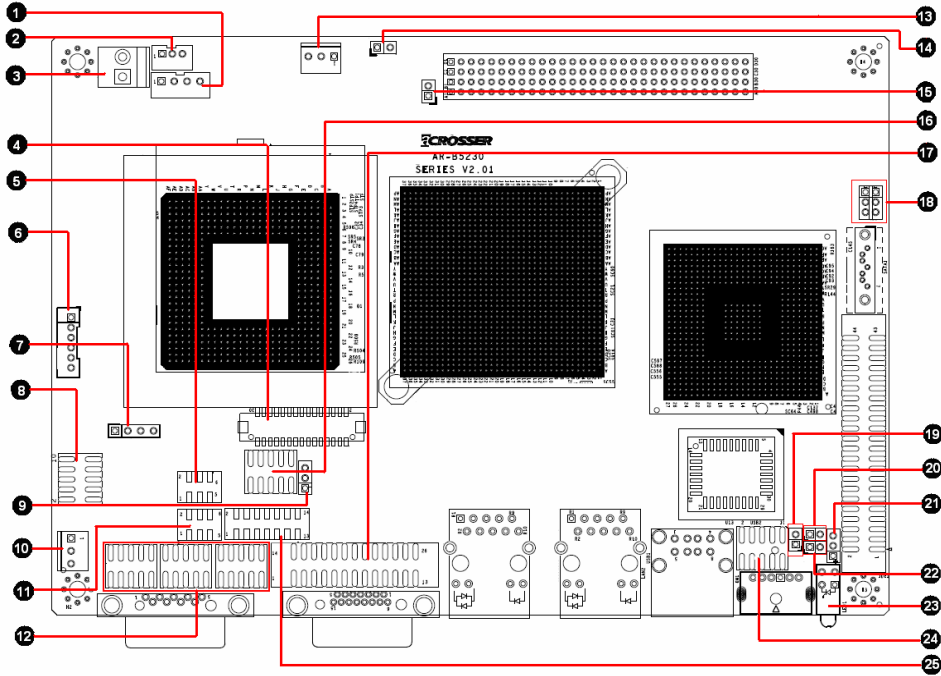
## 1. Main board illustration (Top Side)



## Main board illustration (Bottom Side)


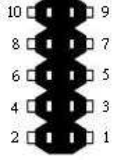


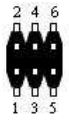
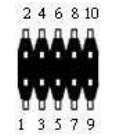





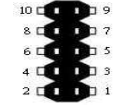




## 2. Connectors and Jumper Settings



1 J5	10 FAN2	19 JP3
2 CN5	11 J1	20 JP4
3 CN4	12 COM2,COM3,COM4	21 JP1
4 LVDS1	13 FAN1	22 J3
5 JP2	14 JP7	23 LED1
6 CN3	15 JP6	24 USB2
7 J2	16 GPIO1	25 TVCON1
8 AUDIO1	17 DVI1	
9 JP5	18 JP8/JP9	

1. J5: SATA POWER.		2. CN5: 5V_SUS/PS_ON/GND FOR ATX.																																																																							
	<table border="1"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12V</td> </tr> <tr> <td>2</td> <td>GND</td> </tr> <tr> <td>3</td> <td>5V</td> </tr> <tr> <td>4</td> <td>5V</td> </tr> </tbody> </table>	PIN	SIGNAL	1	12V	2	GND	3	5V	4	5V		<table border="1"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>PS-ON</td> </tr> <tr> <td>3</td> <td>5V-SUS</td> </tr> </tbody> </table>	PIN	SIGNAL	1	GND	2	PS-ON	3	5V-SUS																																																				
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3. CN4: 12V Power in connector.		4. LVDS: Connector for LVDS signals.																																																																							
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9	TXOUT U1-	10	TXOUT U1+																																																																						
11	NC	12	NC																																																																						
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5. JP2: Switch for select com2 RS232/422/485.		6. CN3: Connector for Back Light Inverter.																																																																							
	<table border="1"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr> <td>1-2</td> <td>RS-232</td> </tr> <tr> <td>3-4</td> <td>RS-422</td> </tr> <tr> <td>5-6</td> <td>RS-485</td> </tr> </tbody> </table>	PIN	SIGNAL	1-2	RS-232	3-4	RS-422	5-6	RS-485		<table border="1"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12V</td> <td>4</td> <td>Back Light On</td> </tr> <tr> <td>2</td> <td>12V</td> <td>5</td> <td>GND</td> </tr> <tr> <td>3</td> <td>GND</td> <td>6</td> <td>Back Light Control</td> </tr> </tbody> </table>	PIN	SIGNAL	PIN	SIGNAL	1	12V	4	Back Light On	2	12V	5	GND	3	GND	6	Back Light Control																																														
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<p><b>7. J2: Pin header for RS422/485.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>TX+</td></tr> <tr><td>2</td><td>TX-</td></tr> <tr><td>3</td><td>RX+</td></tr> <tr><td>4</td><td>RX-</td></tr> </tbody> </table>	PIN	SIGNAL	1	TX+	2	TX-	3	RX+	4	RX-	<p><b>8. AUDIO1: MIC &amp; Line-in &amp; Line-out.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>R-OUT</td><td>2</td><td>L-OUT</td></tr> <tr><td>3</td><td>GND</td><td>4</td><td>GND</td></tr> <tr><td>5</td><td>R-IN</td><td>6</td><td>L-IN</td></tr> <tr><td>7</td><td>MIC-IN</td><td>8</td><td>GND</td></tr> <tr><td>9</td><td>GND</td><td>10</td><td>GND</td></tr> </tbody> </table>	PIN	SIGNAL	PIN	SIGNAL	1	R-OUT	2	L-OUT	3	GND	4	GND	5	R-IN	6	L-IN	7	MIC-IN	8	GND	9	GND	10	GND
PIN	SIGNAL																																		
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<p><b>9. JP5: Switch for select 3V or 5V Panel.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>STATUS</th> <th>SETTING</th> </tr> </thead> <tbody> <tr><td>2-3</td><td>5V</td></tr> <tr><td>1-2</td><td>3.3V</td></tr> </tbody> </table>	STATUS	SETTING	2-3	5V	1-2	3.3V	<p><b>10. FAN2: System Fan connector.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>GND</td></tr> <tr><td>2</td><td>12V</td></tr> <tr><td>3</td><td>DATA</td></tr> </tbody> </table>	PIN	SIGNAL	1	GND	2	12V	3	DATA																				
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3	DATA																																		
<p><b>11. J1: Pin header for speaker&amp; reset&amp; power on.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1-2</td><td>SPEAKER</td></tr> <tr><td>3-4</td><td>RESET</td></tr> <tr><td>5-6</td><td>POWER BUTTON</td></tr> </tbody> </table>	PIN	SIGNAL	1-2	SPEAKER	3-4	RESET	5-6	POWER BUTTON	<p><b>12. COM2&amp;COM3&amp;COM4: Serial Port COM2 &amp; COM3 &amp; COM4.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>DCD</td><td>2</td><td>DSR</td></tr> <tr><td>3</td><td>RX</td><td>4</td><td>RTS</td></tr> <tr><td>5</td><td>TX</td><td>6</td><td>CTS</td></tr> <tr><td>7</td><td>DTR</td><td>8</td><td>RI</td></tr> <tr><td>9</td><td>GND</td><td>10</td><td>GND</td></tr> </tbody> </table>	PIN	SIGNAL	PIN	SIGNAL	1	DCD	2	DSR	3	RX	4	RTS	5	TX	6	CTS	7	DTR	8	RI	9	GND	10	GND		
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<p><b>13. FAN1: CPU Fan connector.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>GND</td></tr> <tr><td>2</td><td>12V</td></tr> <tr><td>3</td><td>DATA</td></tr> </tbody> </table>	PIN	SIGNAL	1	GND	2	12V	3	DATA	<p><b>14. JP7: Switch for Dothan or Banines.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>STATUS</th> <th>SETTING</th> </tr> </thead> <tbody> <tr><td>OPEN</td><td>1.8V(BANINES)</td></tr> <tr><td>CLOSE</td><td>1.5V(DOTHAN)</td></tr> </tbody> </table>	STATUS	SETTING	OPEN	1.8V(BANINES)	CLOSE	1.5V(DOTHAN)																				
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<p><b>15. JP6: Pin header for SERIRQ function.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>STATUS</th> <th>SETTING</th> </tr> </thead> <tbody> <tr><td>OPEN</td><td>Disable</td></tr> <tr><td>CLOSE</td><td>Enable (default)</td></tr> </tbody> </table>	STATUS	SETTING	OPEN	Disable	CLOSE	Enable (default)	<p><b>16. GPIO1: GPIO connector.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>GPIO0</td><td>2</td><td>VCC</td></tr> <tr><td>3</td><td>GPIO1</td><td>4</td><td>GPIO7</td></tr> <tr><td>5</td><td>GPIO2</td><td>6</td><td>GPIO6</td></tr> <tr><td>7</td><td>GPIO3</td><td>8</td><td>GPIO5</td></tr> <tr><td>9</td><td>GND</td><td>10</td><td>GPIO4</td></tr> </tbody> </table>	PIN	SIGNAL	PIN	SIGNAL	1	GPIO0	2	VCC	3	GPIO1	4	GPIO7	5	GPIO2	6	GPIO6	7	GPIO3	8	GPIO5	9	GND	10	GPIO4																																			
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<p><b>17. DVI1: DVI-D connector.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>GND</td><td>26</td><td>TD0+</td></tr> <tr><td>2</td><td>TD0-</td><td>25</td><td>GND</td></tr> <tr><td>3</td><td>TD1+</td><td>24</td><td>TD1-</td></tr> <tr><td>4</td><td>GND</td><td>23</td><td>TD2+</td></tr> <tr><td>5</td><td>TD2-</td><td>22</td><td>GND</td></tr> <tr><td>6</td><td>TCK+</td><td>21</td><td>TCK-</td></tr> <tr><td>7</td><td>HPD</td><td>20</td><td>SCL1</td></tr> <tr><td>8</td><td>VCC</td><td>19</td><td>SDATA1</td></tr> <tr><td>9</td><td>RED</td><td>18</td><td>GND</td></tr> <tr><td>10</td><td>GREEN</td><td>17</td><td>GND</td></tr> <tr><td>11</td><td>BLUE</td><td>16</td><td>GND</td></tr> <tr><td>12</td><td>VSYNC</td><td>15</td><td>SCL2</td></tr> <tr><td>13</td><td>HSYNC</td><td>14</td><td>SDATA2</td></tr> </tbody> </table>	PIN	SIGNAL	PIN	SIGNAL	1	GND	26	TD0+	2	TD0-	25	GND	3	TD1+	24	TD1-	4	GND	23	TD2+	5	TD2-	22	GND	6	TCK+	21	TCK-	7	HPD	20	SCL1	8	VCC	19	SDATA1	9	RED	18	GND	10	GREEN	17	GND	11	BLUE	16	GND	12	VSYNC	15	SCL2	13	HSYNC	14	SDATA2	<p><b>18. JP8/JP9: FSB select jumper.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>FSB</th> <th>JP8</th> <th>JP9</th> </tr> </thead> <tbody> <tr><td>100MHz</td><td>2-3</td><td>1-2</td></tr> <tr><td>133MHz</td><td>2-3</td><td>2-3</td></tr> </tbody> </table>	FSB	JP8	JP9	100MHz	2-3	1-2	133MHz	2-3	2-3
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<p><b>20. JP4: CF card Master/Slave select jumper.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>SET</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>SHORT</td><td>MASTER</td></tr> <tr><td>OPEN</td><td>SLAVE</td></tr> </tbody> </table>	SET	SIGNAL	SHORT	MASTER	OPEN	SLAVE	<p><b>21. JP1: CMOS clear jumper.</b></p>  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr><td>1-2</td><td>On-board battery (Default)</td></tr> <tr><td>2-3</td><td>Clear CMOS</td></tr> </tbody> </table>	PIN	SIGNAL	1-2	On-board battery (Default)	2-3	Clear CMOS																																																					
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