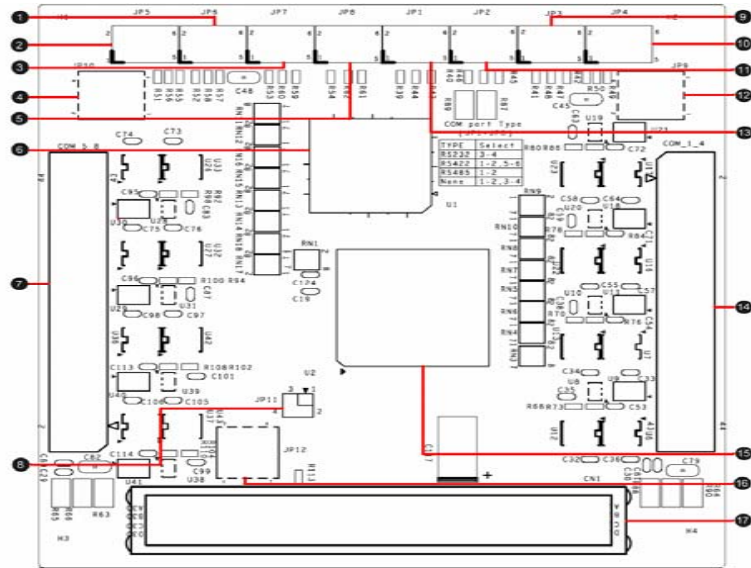







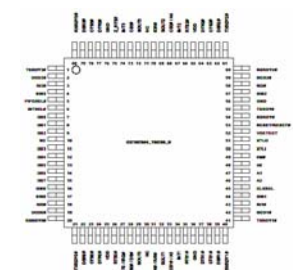
AR-B104C Quick Manual




1. Mainboard illustration (Top Side)






1 JP6 COM6 transfer type select	10 JP4 COM4 transfer type select
2 JP5 COM5 transfer type select	11 JP2 COM2 transfer type select
3 JP7 COM7 transfer type select	12 JP9 COM1 ~ COM4 termination enable
4 JP10 COM5 ~ COM8 termination enable	13 JP1 COM1 transfer type select
5 JP8 COM8 transfer type select	14 COM 1~4 COM1 ~ COM4 output port
6 UART Controller 1 COM8 transfer type select	15 UART Controller 2 OXuPCI954 for COM1 ~ COM4
7 COM 5~8 COM5 ~ COM8 output port	16 JP12 PCI INT signal select
8 JP11 PCI Clock and IDSEL signal select	17 CN1 PCI 104 slot signal from M/B
9 JP3 COM3 transfer type select	

2. Connectors and Jumper Settings

2.1 JP6 COM6 transfer type select  <table border="1"> <thead> <tr> <th>Transfer type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>RS-232</td> <td>3 - 4 (default)</td> </tr> <tr> <td>RS-422</td> <td>1 - 2, 5 - 6</td> </tr> <tr> <td>RS-485</td> <td>1 - 2</td> </tr> </tbody> </table> <p>(AR-B104C/8P Optional)</p>	Transfer type	Select	RS-232	3 - 4 (default)	RS-422	1 - 2, 5 - 6	RS-485	1 - 2	2.2 JP5 COM5 transfer type select  <table border="1"> <thead> <tr> <th>Transfer type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>RS-232</td> <td>3 - 4 (default)</td> </tr> <tr> <td>RS-422</td> <td>1 - 2, 5 - 6</td> </tr> <tr> <td>RS-485</td> <td>1 - 2</td> </tr> </tbody> </table> <p>(AR-B104C/8P Optional)</p>	Transfer type	Select	RS-232	3 - 4 (default)	RS-422	1 - 2, 5 - 6	RS-485	1 - 2	2.3 JP7 COM7 transfer type select  <table border="1"> <thead> <tr> <th>Transfer type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>RS-232</td> <td>3 - 4 (default)</td> </tr> <tr> <td>RS-422</td> <td>1 - 2, 5 - 6</td> </tr> <tr> <td>RS-485</td> <td>1 - 2</td> </tr> </tbody> </table> <p>(AR-B104C/8P Optional)</p>	Transfer type	Select	RS-232	3 - 4 (default)	RS-422	1 - 2, 5 - 6	RS-485	1 - 2
Transfer type	Select																									
RS-232	3 - 4 (default)																									
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RS-485	1 - 2																									
2.4 JP10 COM5 ~ COM8 termination enable  <table border="1"> <thead> <tr> <th>120R termination enable</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>COM5 120R termination enable</td> <td>1 - 2 (default)</td> </tr> <tr> <td>COM6 120R termination enable</td> <td>3 - 4 (default)</td> </tr> <tr> <td>COM7 120R termination enable</td> <td>5 - 6 (default)</td> </tr> <tr> <td>COM8 120R termination enable</td> <td>7 - 8 (default)</td> </tr> </tbody> </table> <p>(AR-B104C/8P Optional)</p>	120R termination enable	Select	COM5 120R termination enable	1 - 2 (default)	COM6 120R termination enable	3 - 4 (default)	COM7 120R termination enable	5 - 6 (default)	COM8 120R termination enable	7 - 8 (default)	2.5 JP8 COM8 transfer type select  <table border="1"> <thead> <tr> <th>Transfer type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>RS-232</td> <td>3 - 4 (default)</td> </tr> <tr> <td>RS-422</td> <td>1 - 2, 5 - 6</td> </tr> <tr> <td>RS-485</td> <td>1 - 2</td> </tr> </tbody> </table> <p>(AR-B104C/8P Optional)</p>	Transfer type	Select	RS-232	3 - 4 (default)	RS-422	1 - 2, 5 - 6	RS-485	1 - 2	2.6 UART Controller 1 OX16C954 UART Controller for COM5~COM8  <p>(AR-B104C/8P Optional)</p>						
120R termination enable	Select																									
COM5 120R termination enable	1 - 2 (default)																									
COM6 120R termination enable	3 - 4 (default)																									
COM7 120R termination enable	5 - 6 (default)																									
COM8 120R termination enable	7 - 8 (default)																									
Transfer type	Select																									
RS-232	3 - 4 (default)																									
RS-422	1 - 2, 5 - 6																									
RS-485	1 - 2																									

2.7 COM 5~8 COM5 ~ COM8 output port				2.8 JP11 PCI INT and IDSEL signal select		2.9 JP3 COM3 transfer type select																				
	Pin	RS-232	RS-422	RS-485	<table border="1"> <thead> <tr> <th>PCI INT and IDSEL signal select</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>CLK0, IDSEL 0</td> <td>1-2, 3-4 (default)</td> </tr> <tr> <td>CLK1, IDSEL 1</td> <td>1 - 2</td> </tr> <tr> <td>CLK2, IDSEL 2</td> <td>3 - 4</td> </tr> <tr> <td>CLK2, IDSEL 3</td> <td>N/A</td> </tr> </tbody> </table>	PCI INT and IDSEL signal select	Select	CLK0, IDSEL 0	1-2, 3-4 (default)	CLK1, IDSEL 1	1 - 2	CLK2, IDSEL 2	3 - 4	CLK2, IDSEL 3	N/A		<table border="1"> <thead> <tr> <th>Transfer type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>RS-232</td> <td>3 - 4 (default)</td> </tr> <tr> <td>RS-422</td> <td>1 - 2, 5 - 6</td> </tr> <tr> <td>RS-485</td> <td>1 - 2</td> </tr> </tbody> </table>	Transfer type	Select	RS-232	3 - 4 (default)	RS-422	1 - 2, 5 - 6	RS-485	1 - 2	
	PCI INT and IDSEL signal select	Select																								
	CLK0, IDSEL 0	1-2, 3-4 (default)																								
	CLK1, IDSEL 1	1 - 2																								
	CLK2, IDSEL 2	3 - 4																								
	CLK2, IDSEL 3	N/A																								
	Transfer type	Select																								
	RS-232	3 - 4 (default)																								
	RS-422	1 - 2, 5 - 6																								
	RS-485	1 - 2																								
	1	DCD_8	N/C	N/C																						
	2	DSR_8	Rx-_8	N/C																						
	3	RXD_8	Rx+_8	N/C																						
	4	RTS_8	N/C	N/C																						
	5	TXD_8	N/C	N/C																						
	6	CTS_8	Tx-_8	Data-_8																						
	7	DTR_8	N/C	N/C																						
	8	RI_8	Tx+_8	Data+_8																						
	9	GND	GND	GND																						
	10	+5V	+5V	+5V																						
	11	DCD_7	N/C	N/C																						
	12	DSR_7	Rx-_7	N/C																						
	13	RXD_7	Rx+_7	N/C																						
	14	RTS_7	N/C	N/C																						
	15	TXD_7	N/C	N/C																						
	16	CTS_7	Tx-_7	Data-_7																						
	17	DTR_7	N/C	N/C																						
	18	RI_7	Tx+_7	Data+_7																						
	19	GND	GND	GND																						
	20	+5V	+5V	+5V																						
	21	DCD_6	N/C	N/C																						
	22	DSR_6	Rx-_6	N/C																						
	23	RXD_6	Rx+_6	N/C																						
	24	RTS_6	N/C	N/C																						
	25	TXD_6	N/C	N/C																						
	26	CTS_6	Tx-_6	Data-_6																						
	27	DTR_6	N/C	N/C																						
	28	RI_6	Tx+_6	Data+_6																						
	29	GND	GND	GND																						
	30	+5V	+5V	+5V																						
	31	N/C	N/C	N/C																						
	32	N/C	N/C	N/C																						
	33	DCD_5	N/C	N/C																						
	34	DSR_5	Rx-_5	N/C																						
35	RXD_5	Rx+_5	N/C																							
36	RTS_5	N/C	N/C																							
37	TXD_5	N/C	N/C																							
38	CTS_5	Tx-_5	Data-_5																							
39	DTR_5	N/C	N/C																							
40	RI_5	Tx+_5	Data+_5																							
41	GND	GND	GND																							
42	+5V	+5V	+5V																							
43	N/C	N/C	N/C																							
44	N/C	N/C	N/C																							

(AR-B104C/8P Optional)

2.10 JP4 COM4 transfer type select		2.11 JP2 COM2 transfer type select		2.12 JP9 COM1 ~ COM4 termination enable											
	Transfer type	Select		<table border="1"> <thead> <tr> <th>Transfer type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>RS-232</td> <td>3 - 4 (default)</td> </tr> <tr> <td>RS-422</td> <td>1 - 2, 5 - 6</td> </tr> <tr> <td>RS-485</td> <td>1 - 2</td> </tr> </tbody> </table>	Transfer type	Select	RS-232	3 - 4 (default)	RS-422	1 - 2, 5 - 6	RS-485	1 - 2			
	Transfer type	Select													
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				<table border="1"> <thead> <tr> <th>120R Termination enable</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>COM1 120R termination enable</td> <td>1 - 2 (default)</td> </tr> <tr> <td>COM2 120R termination enable</td> <td>3 - 4 (default)</td> </tr> <tr> <td>COM3 120R termination enable</td> <td>5 - 6 (default)</td> </tr> <tr> <td>COM4 120R termination enable</td> <td>7 - 8 (default)</td> </tr> </tbody> </table>		120R Termination enable	Select	COM1 120R termination enable	1 - 2 (default)	COM2 120R termination enable	3 - 4 (default)	COM3 120R termination enable	5 - 6 (default)	COM4 120R termination enable	7 - 8 (default)
120R Termination enable	Select														
COM1 120R termination enable	1 - 2 (default)														
COM2 120R termination enable	3 - 4 (default)														
COM3 120R termination enable	5 - 6 (default)														
COM4 120R termination enable	7 - 8 (default)														

2.13 JP1
COM1 transfer type select



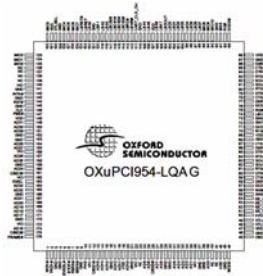
Transfer type	Select
RS-232	3 - 4 (default)
RS-422	1 - 2, 5 - 6
RS-485	1 - 2

2.14 COM 1~4
COM1~ COM4 output port



Pin	RS-232	RS-422	RS-485
1	DCD_4	N/C	N/C
2	DSR_4	Rx-_4	N/C
3	RXD_4	Rx+_4	N/C
4	RTS_4	N/C	N/C
5	TXD_4	N/C	N/C
6	CTS_4	Tx-_4	Data-_4
7	DTR_4	N/C	N/C
8	RI_4	Tx+_4	Data+_4
9	GND	GND	GND
10	+5V	+5V	+5V
11	DCD_3	N/C	N/C
12	DSR_3	Rx-_3	N/C
13	RXD_3	Rx+_3	N/C
14	RTS_3	N/C	N/C
15	TXD_3	N/C	N/C
16	CTS_3	Tx-_3	Data-_3
17	DTR_3	N/C	N/C
18	RI_3	Tx+_3	Data+_3
19	GND	GND	GND
20	+5V	+5V	+5V
21	DCD_2	N/C	N/C
22	DSR_2	Rx-_2	N/C
23	RXD_2	Rx+_2	N/C
24	RTS_2	N/C	N/C
25	TXD_2	N/C	N/C
26	CTS_2	Tx-_2	Data-_2
27	DTR_2	N/C	N/C
28	RI_2	Tx+_2	Data+_2
29	GND	GND	GND
30	+5V	+5V	+5V
31	N/C	N/C	N/C
32	N/C	N/C	N/C
33	DCD_1	N/C	N/C
34	DSR_1	Rx-_1	N/C
35	RXD_1	Rx+_1	N/C
36	RTS_1	N/C	N/C
37	TXD_1	N/C	N/C
38	CTS_1	Tx-_1	Data-_1
39	DTR_1	N/C	N/C
40	RI_1	Tx+_1	Data+_1
41	GND	GND	GND
42	+5V	+5V	+5V
43	N/C	N/C	N/C
44	N/C	N/C	N/C

2.15 UART Controller 2
OXuPCI954 UART
Controller for COM1~COM4



2.16 JP12
PCI INT signal select



PCI INT signal select	Select
INTA	1 - 2 (default)
INTB	3 - 4
INTC	5 - 6
INTD	7 - 8

2.17 CN1
PCI 104 slot signal from M/B

