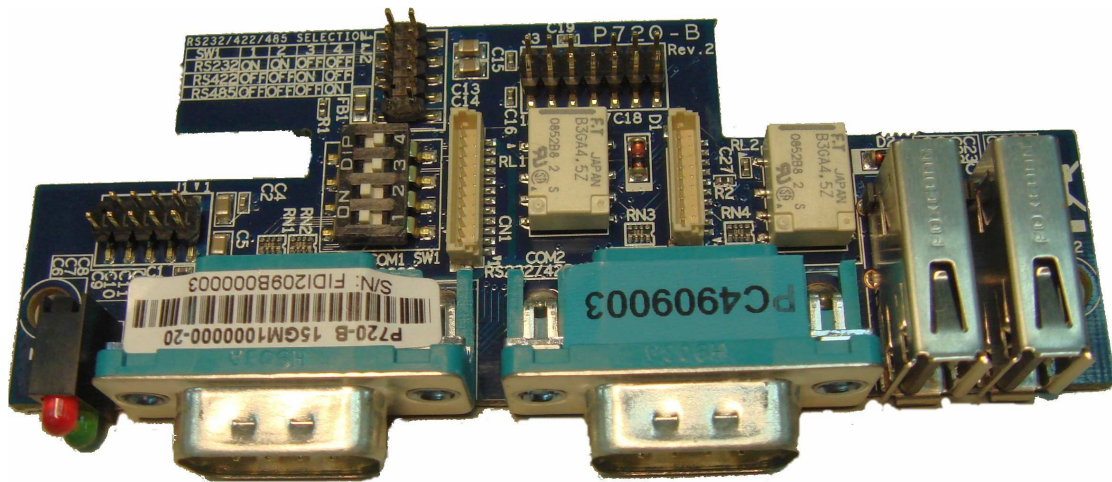




Daughter Card **P720-B**

Revision 2

Operating Guide



Version 0.2

November 13, 2009

VIA Embedded Platform Division
VIA Technologies, INC

Operating Guide of P720-B Ver0.2

Table of Contents

1. Specification	3
2. PCB Layout Dimension	4
3. Pin Header and Connector List.....	4
4. Pin Header and Connector Pin Assignment.....	5
4.1 COM Port	5
4.2 Board to Board Interface (COM1).....	6
4.3 Board to Board Interface (COM2).....	7
4.4 USB Port4 / Port5 Pin Header.....	8
4.5 Audio Pin Header.....	8
4.6 Front Panel & KB/MS.....	9
4.7 RS-232 / 422 / 485 Selector	9

Operating Guide of P720-B Ver0.2

Revision History

Document Release	Date	Revision	initials
Version 0.1	09/03, 2009	- Initial Released for EVT Stage	Vincent Wu
Version 0.2	11/13, 2009	- COM Port Mode Table Changed	Vincent Wu

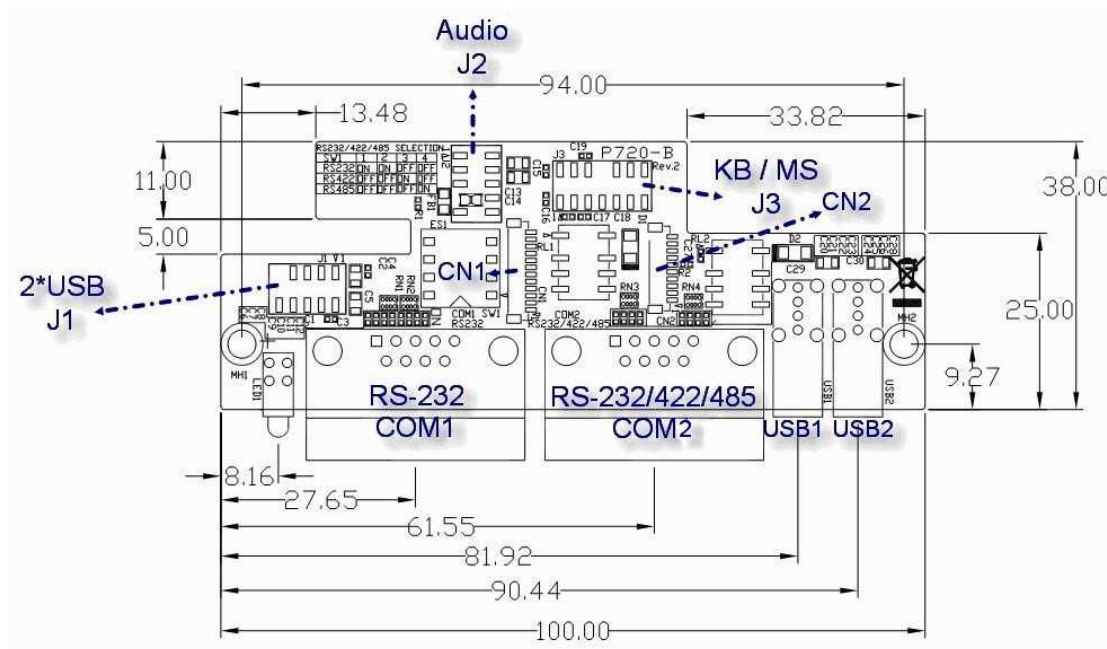
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1. Specification

Dimension		- 100 (W) × 32 (D) mm
PCB Layer		- 4 layers
Board to Board Interface		- 2x25 Female Connector
Onboard I/O Connector	USB	- Two USB Ports, Vertical Type - Compliant with USB 2.0
	COM Port	- One D-SUB 9 Pin RS-232 COM Port - One D-SUB 9 Pin RS-232/422/485 COM Port
	Power LED	- Green Color LED
	HDD LED	- Red Color LED
Onboard I/O Pin Header	Front Panel	- One 2x7 Pitch 2.0mm Pin Header
	KB / MS	
	USB	- One 2x5 Pitch 2.0mm Pin Header - Two USB Ports Support
	Audio	- One 2x5 Pitch 2.0 Pin Header - Line In, Line Out, MIC
Operation Temperature		- 0°C ~ 60 °C
Operating Humidity		- 0% ~ 95% (Relative Humidity; Non-Condensing)

Operating Guide of P720-B Ver0.2

2. PCB Layout Dimension



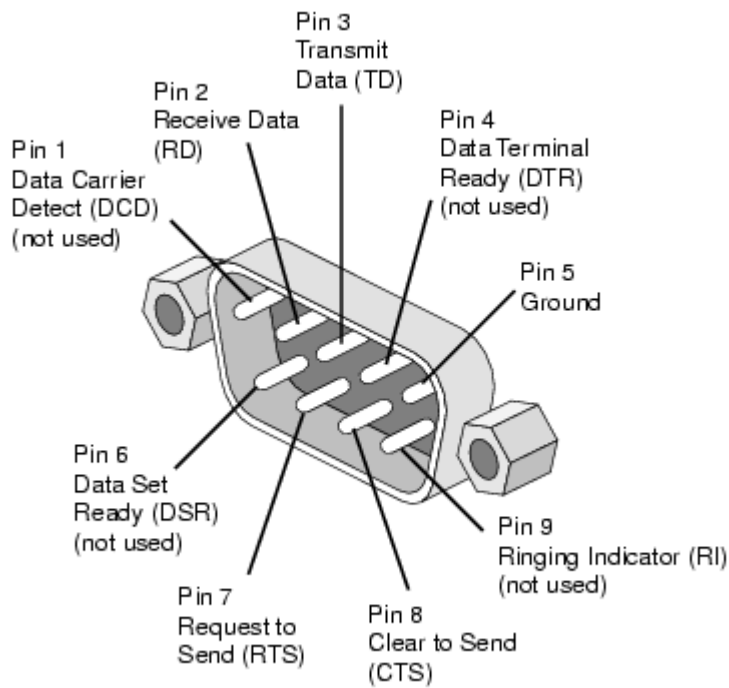
3. Pin Header and Connector List

COM1	- D-SUB 9 Pin with RS-232	-	-
COM2	- D-SUB 9 Pin with RS-232/422/485	-	-
USB1	- USB Port2 (V Type)	-	-
USB2	- USB Port3 (V Type)	-	-
CN1	- Board to Board Interface (COM1)	1×12, 12Pin	1.0mm
CN2	- Board to Board Interface (COM2)	1×10, 10Pin	1.0mm
J1	- USB Port4 / Port5 Pin Header	2×5, 10Pin	2.0mm
J2	- Audio Pin Header	2×5, 10Pin	2.0mm
J3	- Front Panel & KB/MS Pin Header	2×7, 10Pin	2.0mm
J4	- Board to Board Interface	2×25, 50Pin	2.0mm
SW1	- RS-232 / 422 / 485 Selector	-	-

Operating Guide of P720-B Ver0.2

4. Pin Header and Connector Pin Assignment

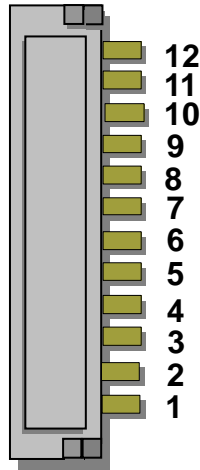
4.1 COM Port



COM 1 / COM 2			
Pin	Signal	Pin	Signal
1	DCD	6	DSR
2	Rx	7	RTS
3	Tx	8	CTS
4	DTR	9	RI
5	GND		

Operating Guide of P720-B Ver0.2

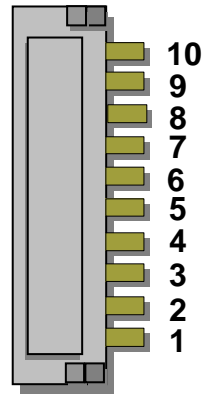
4.2 Board to Board Interface (COM1)



CN1			
Pin	Signal	Pin	Signal
1	GND	2	-LPCRST
3	-	4	-CTS1
5	-RTS1	6	-DSR1
7	-DTR1	8	RXD1
9	TXD1	10	-DCD1
11	-RI1	12	+3.3V / +5V

Operating Guide of P720-B Ver0.2

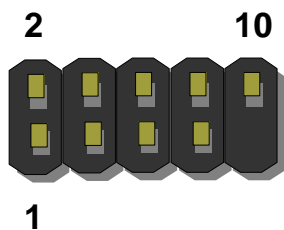
4.3 Board to Board Interface (COM2)



CN2			
Pin	Signal	Pin	Signal
1	+3.3V / +5V	2	RXD2
3	TXD2	4	-DCD2
5	-RI2	6	GND
7	-DTR2	8	-CTS2
9	-RTS2	10	-DSR2

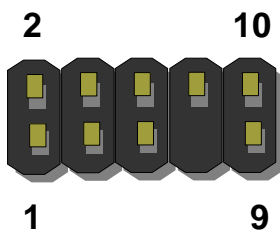
Operating Guide of P720-B Ver0.2

4.4 USB Port4 / Port5 Pin Header



J1			
Pin	Signal	Pin	Signal
1	+5VSUS	2	+5VSUS
3	USB VD5-	4	USB VD4-
5	USB VD5+	6	USB VD4+
7	GND	8	GND
9	KEY	10	GND

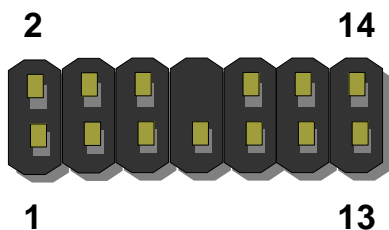
4.5 Audio Pin Header



J2			
Pin	Signal	Pin	Signal
1	LINE OUT_R	2	LINE OUT_L
3	LINE IN_R	4	LINE IN_L
5	MIC IN_R	6	MIC IN_L
7	KEY	8	JACK SENSE
9	AUD_GND	10	AUD_GND

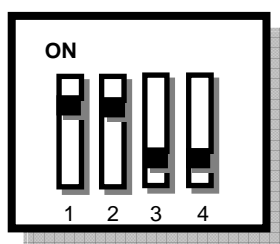
Operating Guide of P720-B Ver0.2

4.6 Front Panel & KB/MS



J3			
Pin	Signal	Pin	Signal
1	PW_BN-	2	GND
3	RST_SW	4	GND
5	+5VSUS	6	+5VSUS
7	SPEAK_BZ	8	KEY
9	GND	10	GND
11	KB_DT	12	MS_DT
13	KB_CLK	14	MS_CLK

4.7 RS-232 / 422 / 485 Selector



SW1	1	2	3	4
RS-232 *	ON	ON	OFF	OFF
RS-422	OFF	OFF	ON	OFF
RS-485	OFF	OFF	OFF	ON

* Default Setting