Synergy Global Technology Inc

www.RackmountMart.com

Toll Free: 1-888-865-6888
Tel: 510-226-8638
Fax: 510-226-8968
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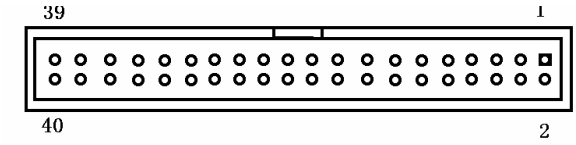
SB1002 user manual

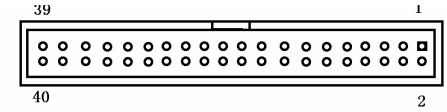
1. DDR SDRAM Module：DIMM1&DIMM2，184pin DDR DIMM。
2. IDE：two standard IDE interfaces.

Primary



1	Reset IDE	9	Host Data 4	17	Host Data 0	25	Host IOR	33	Address 1
2	GND	10	Host Data 11	18	Host Data 15	26	GND	34	NC
3	Host Data 7	11	Host Data 3	19	GND	27	IOCHRDY	35	Address 0
4	Host Data 8	12	Host Data 12	20	NC	28	Host ALE	36	Address 2
5	Host Data 6	13	Host Data 2	21	DRQ1	29	DACK1	37	Chip Select0
6	Host Data 9	14	Host Data 13	22	GND	30	GND	38	Chip Select 1
7	Host Data 5	15	Host Data 1	23	Host IOW	31	IRQ15	39	Activity
8	Host Data 10	16	Host Data 14	24	GND	32	NC	40	GND

Secondary



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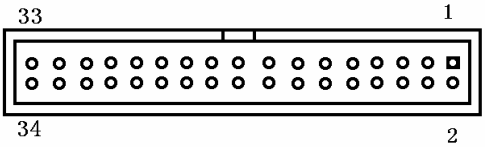
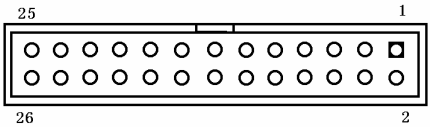
6	Host Data 9	14	Host Data 13	22	GND	30	GND	38	Chip Select 1
7	Host Data 5	15	Host Data 1	23	Host IOW	31	IRQ14	39	Activity
8	Host Data 10	16	Host Data 14	24	GND	32	NC	40	GND

3. **Floppy：**



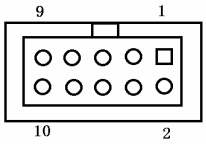
1	GND	8	INDEX	15	GND	22	WRITE D	29	GND
2	DD SEL	9	GND	16	MOTOR E1	23	GND	30	READ DATA
3	GND	10	MOTOR E0	17	GND	24	WRITE G	31	GND
4	NC	11	GND	18	DIRECTION	25	GND	32	HEAD SELECT
5	GND	12	D SEL1	19	GND	26	TRACK 00	33	GND
6	DD SEL	13	GND	20	STEP	27	GND	34	DISKETTE CH
7	GND	14	D SEL0	21	GND	28	WRITE P		

4. **Parallel：**



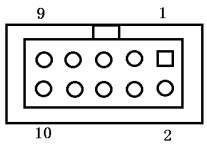
1	STB	6	PD4	11	BUSY	16	INITIALIZE	21	GND
2	PD0	7	PD5	12	PAPER EMPTY	17	SELECT	22	GND
3	PD1	8	PD6	13	SELECT	18	GND	23	GND
4	PD2	9	PD7	14	AUTO FEED	19	GND	24	GND
5	PD3	10	ACK	15	ERROR	20	GND	25	GND

5. **COM1：**



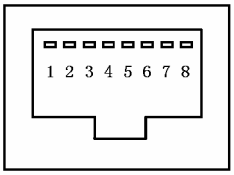
1	DCD	3	RXD	5	TXD	7	DTR	9	GND
2	DSR	4	RTS	6	CTS	8	RI	10	GND

6. **COM2：**



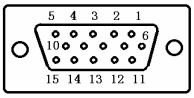
1	DCD	3	RXD	5	TXD	7	DTR	9	GND
2	DSR	4	RTS	6	CTS	8	RI	10	GND

7. LAN Connector：standard RJ45 10/100MB interface



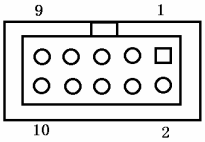
1	TX+	3	RX+	5	NC	7	NC
2	TX-	4	NC	6	RX-	8	NC

8. VGA Connector：



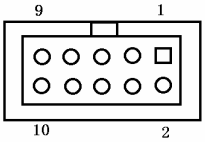
1	RED	5	GND	9	NC	13	H-SYNC.
2	GREEN	6	GND	10	GND	14	V-SYNC.
3	BLUE	7	GND	11	NC	15	3VDDCCL
4	NC	8	GND	12	3VDDCDA		

9. USB1、2：



1	VCC	3	UD1-	5	UD1+	7	GND	9	GND
2	GND	4	GND	6	UD2+	8	UD2-	10	VCC

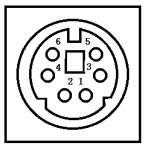
10. USB3、4：



1	VCC	3	UD3-	5	UD3+	7	GND	9	GND
2	GND	4	GND	6	UD4+	8	UD4-	10	VCC

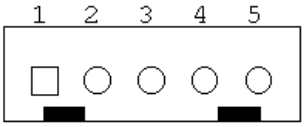
11. KB & Mouse Connector：

MKB



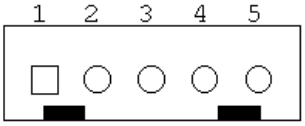
1	KB_DATA	3	GND	5	KB_CLOCK
2	M_DATA	4	VCC	6	M_CLOCK

KB



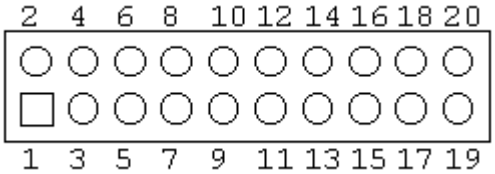
1	VCC	2	GND	3	NC	4	KBDATA	5	KBCLK

MS



1	VCC	2	GND	3	NC	4	MSDATA	5	MSCLK

12. Front Panel：J1

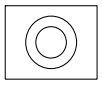


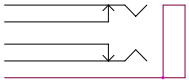
1	PWRLED+	2	BUZZDATA +	3	PWRLED-	4	NC	5	NC
6	NC	7	KEYLOCK+	8	BUZZDATA -	9	KEYLOCK-	10	NC
11	SLEEPSW-	12	SLEEPSW+	13	POWERSW-	14	POWERSW +	15	SLEEPLED +
16	SLEEPLED -	17	RESETSW-	18	RESETSW+	19	IDELED-	20	IDELED+

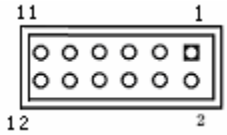
13. Compact Flash：

Standard Compact Flash socket, 50 pin

14. **Audio：**





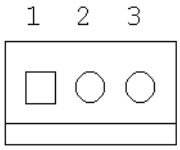


1	AGND	2	VREF	3	SPEAKOUT_L
4	SPEAKOUT_R	5	AGND	6	
7	CD_L	8	CD_R	9	LINE_L
10	LINE_R	11	MIC_V	12	MIC_IN

CD_IN

1	CD_L	2	GND	3	GND	4	CD_R

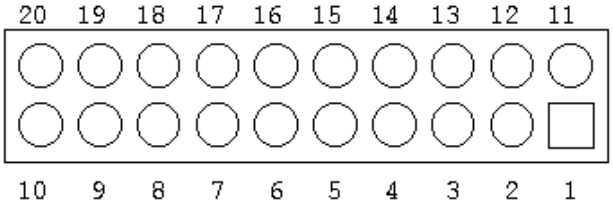
15. **FAN：**



1	GND	2	+12V	3	FANTACH

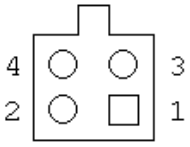
16. **Power Connector：**

ATX Connector：20PIN



1	+3.3V	2	+3.3V	3	GND	4	+5V	5	GND
6	+5V	7	GND	8	PW-OK	9	5VSB	10	+12V
11	+3.3V	12	-12V	13	GND	14	PS-ON	15	GND
16	GND	17	GND	18	-5V	19	+5V	20	+5V

+12V：4PIN



1	GND	2	GND	3	+12V	4	+12V

EXT POWER: J2

1	+5VSB	2	PWR CTL #	3	GND	4	NC	5	GND	6	SLEEP

Jumper setting:

1. **FSB setting**

FSB	400	533	AUTO
JFS	2-3	OPEN	1-2

2. **Clear CMOS**

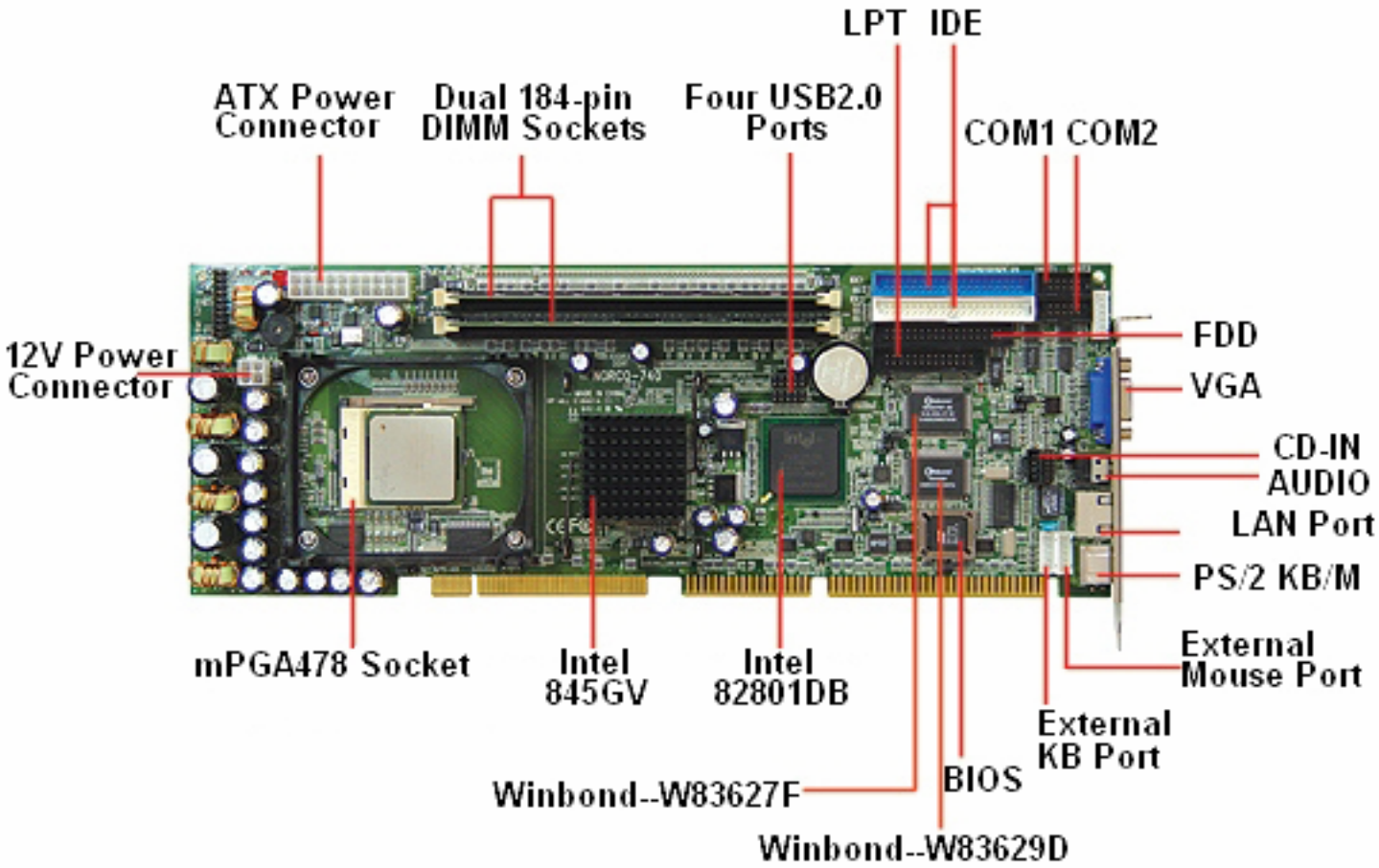
JCC	FUNCTION
1-2	CLEAR CMOS
2-3	NORMAL

3. **WATCHDOG**

JWD	WATCHDOG
1-2	IRQ11
2-3	RESET

4. **BIOS protection**

JAV	
CLOSE	WRITE FLASH DISABLE
OPEN	ENABLE


LPT
IDE
ATX Power Connector
Dual 184-pin DIMM Sockets
Four USB2.0 Ports
COM1
COM2
FDD
12V Power Connector
VGA
CD-IN
AUDIO
LAN Port
PS/2 KB/M
External Mouse Port
mPGA478 Socket
Intel 845GV
Intel 82801DB
External KB Port
BIOS
Winbond--W83627F
Winbond--W83629D