Quick Reference Guide

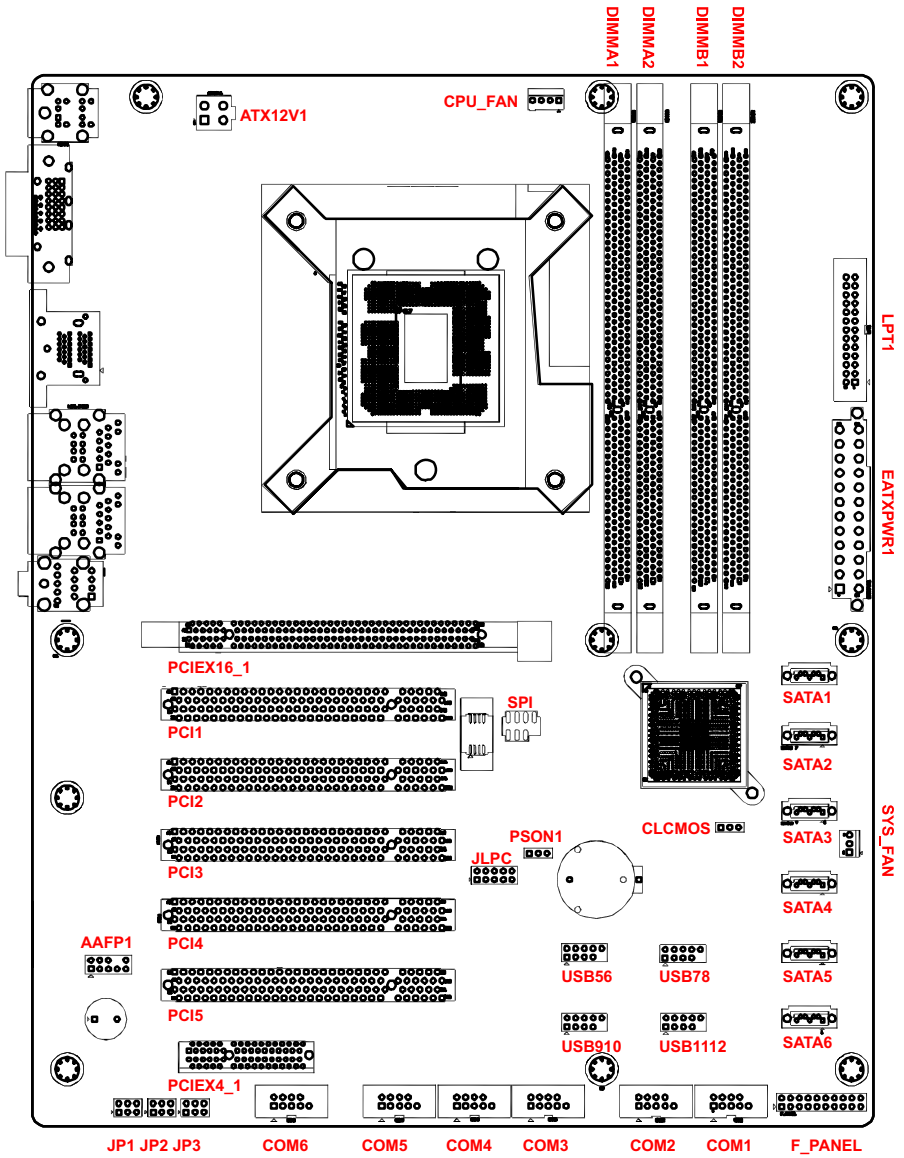


Figure 1: M-342 Board Layout

AAFP1	Front Panel Audio Header	**LPT1**	Printer Port Connecto
ATX12V1	ATX 12V Power Connector	**PCIEX4_1**	PCI Express x4 slot
DIMM_A1~B2	240-pin DIMM slots	**PCIEX16_1**	PCI Express x16 slot
EATXPWR1	ATX Power Connector	**PCI1~5**	PCI slots
CLCMOS	Clear CMOS Jumper	**PSON1**	AT/ATX Mode Jumper
COM1~6	Serial Port Connectors 1~6	**SATA1~2**	SATA 6 Gb/s Connector
CPU_FAN	CPU Fan Connector	**SATA3~6**	SATA 3 Gb/s Connector
F_PANEL	System Panel Pin Header	**SPI**	SPI Pin Header
JLPC	LPC Pin Header	**SYS _FAN**	System Fan Connector
JP1~3	COM6 Mode Jumpers	**USB56~1112**	USB 2.0 Pin Headers

Table 1: M-342 Board Layout Legend

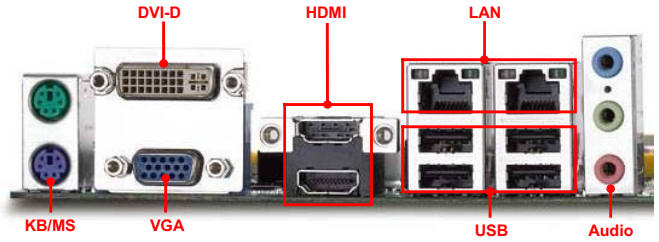
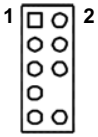


Figure 2: M-342 Rear I/O Layout

NOTE: The lower HDMI port has limited clearance with the rear I/O shield. Use an HDMI cable with a low-profile molding.

Front Panel Audio Pin Header (AAFP1)

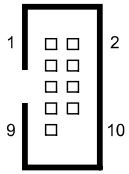
Pin #	Signal	Pin #	Signal
1	MIC2_L	2	AGND
3	MIC2_R	4	FP_PRES#
5	LIN2_R	6	SRTN1
7	SENSE A	8	NC
9	LIN2_L	10	SRTN2



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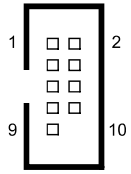
Serial Port Connectors - RS-232 (COM1~6)

Pin #	Signal	Function
1	DCD	Data Carrier Detect
2	DSR	Data Set Ready
3	RXD	Receive Data
4	RTS	Request to Send
5	TXD	Transmit Data
6	CTS	Clear to Send
7	DTR	Data Terminal Ready
8	RI	Ring Indicate
9	GND	Ground
10	NC	Key



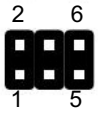
Serial Port Connector - RS-422/485 (COM6)

Pin #	RS-422	RS-485
1	TX-	DATA-
2	N/A	N/A
3	TX+	DATA+
4	N/A	N/A
5	RX+	N/A
6	N/A	N/A
7	RX-	N/A
8	N/A	N/A
9	GND	GND
10	Key	Key



COM6 Mode Jumper Settings (JP1~3)

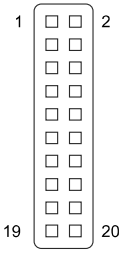
Short the jumper pins according to the following settings to set COM1 to RS-232/422/485 mode:



	RS-232	RS-422	RS-485
JP1	1-3, 2-4	3-5, 4-6	3-5, 4-6
JP2	1-2	3-4	5-6
JP3	1-3, 2-4	3-5, 4-6	3-5, 4-6

System Panel Pin Header (F_PANEL1)

Pin #	Signal	Function	Pin Group
1	WDSPK	Speaker signal	Chassis Speaker
3	NC		
5	NC		
7	P5V	Power	
9	NC		
11	GND	Ground	Key Lock
13	KEYLOCK	Keyboard lock	
15	PLED	Power LED signal	Power LED
17	NC		
19	P5V	Power LED pull-up	
2	GND	Ground	RESET Button
4	RESETBT	RESET signal	
6	NC		
8	GND	Ground	Power On Button
10	POWERBT	Power-on signal	
12	NC		
14	NC		
16	HDDLED	Hard Disk LED signal	Hard Disk LED
18	P3V3	Hard Disk LED pull-up	
20	NC		

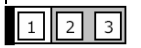


USB 2.0 Pin Headers (USB56/78/910/1112)

Pin #	Signal	Pin #	Signal
1	+5V	2	+5V
3	USB0-	4	USB1-
5	USB0+	6	USB1+
7	GND	8	GND
9	Key	10	NC



Clear CMOS (CLCMOS)

RTC status	Connection	CLCMOS
Normal	1 – 2	
Clear CMOS	2 – 3	

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