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M.2

 M.2 Specification [link](#)


2242 Key A

DP

Table 23. Display Port Based Module Solution Pinout (Module Key A)

74	1.5V	GPIO	75
72	1.5V	REFCLK0	73
70	PEWAKE# (I/O)(0.3.3V)	REFCLK0	71
68	CLKREQ# (I/O)(0.3.3V)	PETx0	69
66	PERST# (I/O)(0.3.3V)	PETx0	67
64	RESERVED	PETx0	65
62	ALERT# (I/O)(0.3.3V)	GPIO	63
60	I2C_CLK (I/O)(0.3.3V)	PETx0	61
58	I2C_DATA (I/O)(0.3.3V)	PETx0	59
56	W_DISABLE# (I/O)(0.3.3V)	GPIO	57
54	W_DISABLE# (I/O)(0.3.3V)	PEWAKE# (I/O)(0.3.3V)	55
52	PERST# (I/O)(0.3.3V)	CLKREQ# (I/O)(0.3.3V)	53
50	J5CLK130H# (I/O)(0.3.3V)	GPIO	51
48	COEX1 (I/O)(0.3.3V)	REFCLK0	49
46	COEX2 (I/O)(0.3.3V)	REFCLK0	47
44	COEX3 (I/O)(0.3.3V)	PETx0	45
42	VENDOR DEFINED	PETx0	43
40	VENDOR DEFINED	PETx0	41
38	VENDOR DEFINED	GPIO	39
36	N/C	PERx0	37
34	DP_M0#	PERx0	35
32	DP_M0#	GPIO	33
30	GPIO	DP_HPD (I/O)(0.3.3V)	31
28	DP_M1#	DP_M1#	29
26	DP_M1#	DP_M1#	27
24	GPIO	DP_M1#	25
22	DP_A0#	DP_M1#	23
20	DP_A0#	DP_M1#	21
18	LED0# (I/O)(0.3.3V)	DP_M1#	19
16	LED0# (I/O)(0.3.3V)	DP_M1# GND (only 3.3V) (I/O)(0.3.3V)	17
14	Module Key	Module Key	13
12	Module Key	Module Key	11
10	Module Key	Module Key	9
8	Module Key	Module Key	7
6	LED1# (I/O)(0.3.3V)	GPIO	5
4	1.5V	USB_D-	3
2	1.5V	GPIO	1

M2A-VGA

M2A-DP

M2A-eDP/LVDS



2230 Key E+A Wifi+Blue

Table 24. Socket 1 Module Pinout with Dual Module Key (A-E)

74	1.5V	GPIO	75
72	1.5V	RESERVED/REFCLK0	73
70	UIM_POWER_SRC/GPIO/PEWAKE#	RESERVED/REFCLK0	71
68	UIM_POWER_SNK/CLKREQ#	GPIO	69
66	UIM_SWP/PERST#	RESERVED/PETx0	67
64	RESERVED	RESERVED/PETx0	65
62	ALERT# (I/O)(0.3.3V)	GPIO	63
60	I2C_CLK (I/O)(0.3.3V)	RESERVED/PERx0	61
58	I2C_DATA (I/O)(0.3.3V)	RESERVED/PERx0	59
56	W_DISABLE# (I/O)(0.3.3V)	GPIO	57
54	W_DISABLE# (I/O)(0.3.3V)	PEWAKE# (I/O)(0.3.3V)	55
52	PERST# (I/O)(0.3.3V)	CLKREQ# (I/O)(0.3.3V)	53
50	J5CLK130H# (I/O)(0.3.3V)	GPIO	51
48	COEX1 (I/O)(0.3.3V)	REFCLK0	49
46	COEX2 (I/O)(0.3.3V)	REFCLK0	47
44	COEX3 (I/O)(0.3.3V)	GPIO	45
42	VENDOR DEFINED	PETx0	43
40	VENDOR DEFINED	PETx0	41
38	VENDOR DEFINED	GPIO	39
36	N/C	PERx0	37
34	N/C	PERx0	35
32	N/C	GPIO	33
30	Module Key	Module Key	29
28	Module Key	Module Key	27
26	Module Key	Module Key	25
24	Module Key	Module Key	23
22	N/C	N/C	21
20	N/C	N/C	19
18	N/C	N/C	17
16	LED0# (I/O)(0.3.3V)	Module Key	15
14	Module Key	Module Key	13
12	Module Key	Module Key	11
10	Module Key	Module Key	9
8	Module Key	Module Key	7
6	LED1# (I/O)(0.3.3V)	GPIO	5
4	1.5V	USB_D-	3
2	1.5V	GPIO	1



2230 Key E

Wifi+Blue

Table 22. SDIO Based Module Solution Pinout (Module Key E)

74	1.5V	GPIO	75
72	1.5V	RESERVED/REFCLK0	73
70	UIM_POWER_SRC/GPIO/PEWAKE#	RESERVED/REFCLK0	71
68	UIM_POWER_SNK/CLKREQ#	GPIO	69
66	UIM_SWP/PERST#	RESERVED/PETx0	67
64	RESERVED	RESERVED/PETx0	65
62	ALERT# (I/O)(0.3.3V)	GPIO	63
60	I2C_CLK (I/O)(0.3.3V)	RESERVED/PERx0	61
58	I2C_DATA (I/O)(0.3.3V)	RESERVED/PERx0	59
56	W_DISABLE# (I/O)(0.3.3V)	GPIO	57
54	W_DISABLE# (I/O)(0.3.3V)	PEWAKE# (I/O)(0.3.3V)	55
52	PERST# (I/O)(0.3.3V)	CLKREQ# (I/O)(0.3.3V)	53
50	J5CLK130H# (I/O)(0.3.3V)	GPIO	51
48	COEX1 (I/O)(0.3.3V)	REFCLK0	49
46	COEX2 (I/O)(0.3.3V)	REFCLK0	47
44	COEX3 (I/O)(0.3.3V)	GPIO	45
42	VENDOR DEFINED	PETx0	43
40	VENDOR DEFINED	PETx0	41
38	VENDOR DEFINED	GPIO	39
36	UART_CTS (I/O)(0.3.3V)	PERx0	37
34	UART_RTS (I/O)(0.3.3V)	PERx0	35
32	UART_RXD (I/O)(0.3.3V)	GPIO	33
30	Module Key	Module Key	29
28	Module Key	Module Key	27
26	Module Key	Module Key	25
24	Module Key	Module Key	23
22	UART_TXD (I/O)(0.3.3V)	SDIO RESET# (I/O)(0.3.3V)	21
20	UART_WAKE# (I/O)(0.3.3V)	SDIO WAKE# (I/O)(0.3.3V)	19
18	GPIO	SDIO DATA0 (I/O)(0.3.3V)	17
16	LED0# (I/O)(0.3.3V)	SDIO DATA1 (I/O)(0.3.3V)	15
14	PCN_IN/IO/SD_IN (I/O)(0.3.3V)	SDIO DATA2 (I/O)(0.3.3V)	13
12	PCN_OUT/IO/SD_OUT (I/O)(0.3.3V)	SDIO DATA3 (I/O)(0.3.3V)	11
10	PCN_SYNC/IO/SD_WS (I/O)(0.3.3V)	SDIO CMD0 (I/O)(0.3.3V)	9
8	PCN_CLK/IO/SD_SCK (I/O)(0.3.3V)	SDIO CMD1 (I/O)(0.3.3V)	7
6	LED1# (I/O)(0.3.3V)	GPIO	5
4	1.5V	USB_D-	3
2	1.5V	GPIO	1