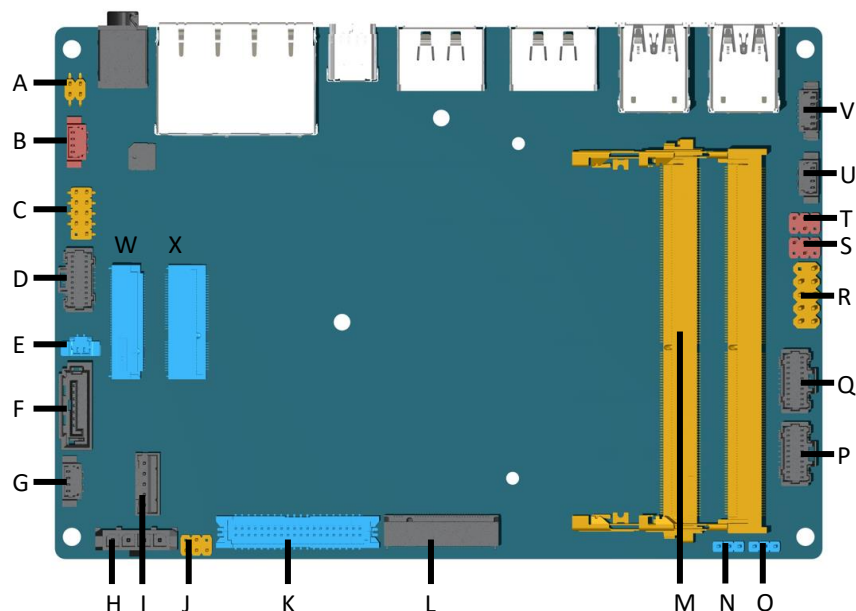
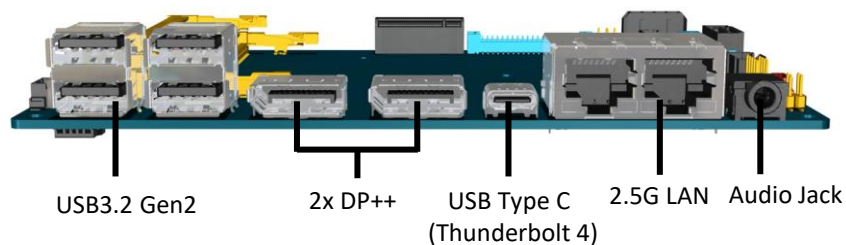


ECM-RPLP

13th Gen Intel® Core™ i7/i5/i3 Mobile Processor onboard, 3.5" SBC



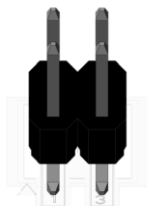
Item	Description	Item	Description
A	MIC type Selection Jumper	M	2 x SO-DIMM DDR5 Slot
B	AMP Speaker Header	N	AT/ATX Mode Selection
C	USB2.0 Header (2x port)	O	Clear CMOS Header
D	I2C and GPIO Header	P	2 x RS232/422/485
E	RTC Battery Header	Q	2 x RS232
F	1x SATA III Connector	R	Front Panel Header
G	SATA Power Header	S	DCOM1 Power COM Selection Jumper
H	DC-in Power Header	T	DCOM2 Power COM Selection Jumper
I	Panel Backlight Power Header	U	CPU Fan Header
J	Panel Voltage Selection Jumper	V	USB2.0 Header (1x port)
K	LVDS Header	W	M.2 B Key Slot
L	M.2 M Key Slot	X	M.2 E Key Slot

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13th Gen Intel® Core™ i7/i5/i3 Mobile Processor onboard, 3.5" SBC

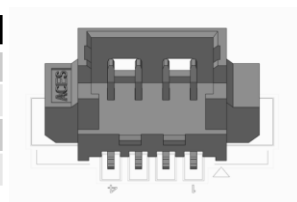
■ MIC Type Selection Jumper

Type	Jumper	Remark
CITA	(1-2) + (3-4)	Default
OMTP	(1-3) + (2-4)	



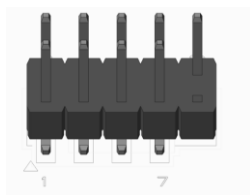
■ AMP Speaker Header

Pin	Signal Name
1	GND_R
2	Front_R
3	GND_L
4	Front_L



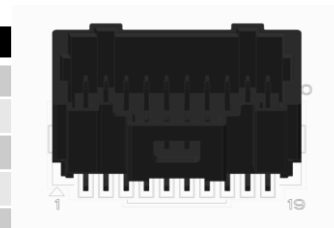
■ USB2.0 Header (2x port)

Pin	Signal	Pin	Signal
1	+5V DC	2	+5V DC
3	Data (negative)	4	Data (negative)
5	Data (positive)	6	Data (positive)
7	Ground	8	Ground
9	Key (no pin)	10	No Connect



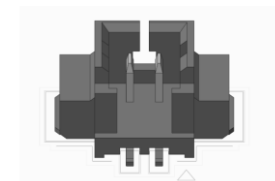
■ I2C and GPIO Header

Pin	Signal	Pin	Signal
1	VCC3_GPIO	2	VCC3_GPIO
3	SIO_GPIO1	4	SIO_GPIO5
5	SIO_GPIO2	6	SIO_GPIO6
7	SIO_GPIO3	8	SIO_GPIO7
9	SIO_GPIO4	10	SIO_GPIO8
11	GND	12	GND
13	VCC3_GPIO	14	NC
15	I2C0_SCL	16	NC
17	I2C0_SCL	18	NC
19	GND	20	GND



■ RTC Battery Header

Pin	Signal Name
1	V_Battery
2	GND

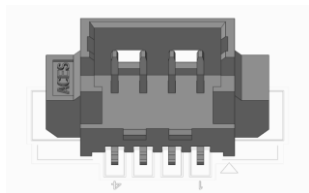


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13th Gen Intel® Core™ i7/i5/i3 Mobile Processor onboard, 3.5" SBC

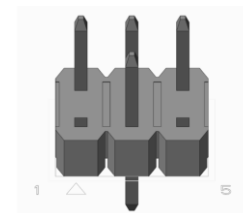
■ SATA Power Header

Pin	Signal Name
1	VCC3
2	GND
3	VCC
4	+12V



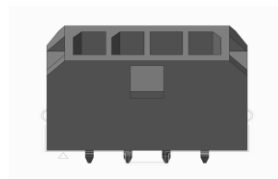
■ Panel Voltage Selection Jumper

Type	Jumper	Remark
VCC3	(2-4)	
+12V	(3-4)	
VCC	(4-6)	Default



■ DC-in Power Header

Pin	Signal Name
1	GND
2	DC-in 12-24V
3	DC-in 12-24V
4	GND



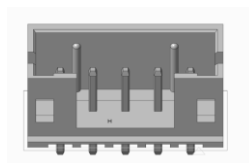
■ AT/ATX Mode Selection

1-2	AT Mode
2-3	ATX Mode (Default)



■ Panel Backlight Power Header

Pin	Signal Name
1	+12V_BL
2	GND
3	Backlight_Enable
4	Backlight_PWM control
5	GND



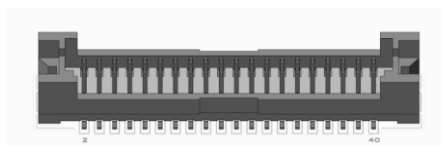
■ Clear CMOS Header

1-2	Clear CMOS
2-3	Normal (Default)



ECM-RPLP

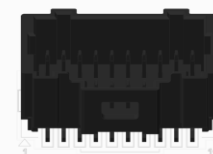
13th Gen Intel® Core™ i7/i5/i3 Mobile Processor onboard, 3.5" SBC



LVDS Connector

Pin	Description	Pin	Description
1	VCC3	2	PANEL_PWR
3	VCC3	4	PANEL_PWR
5	LVDS_DDC_SCL	6	LVDS_DDC_SDA
7	CABLE_ID1	8	GND
9	LVDS0_LINK1_CON_DP	10	LVDS0_LINK0_CON_DP
11	LVDS0_LINK1_CON_DN	12	LVDS0_LINK0_CON_DN
13	GND	14	GND
15	LVDS0_LINK3_CON_DP	16	LVDS0_LINK2_CON_DP
17	LVDS0_LINK3_CON_DN	18	LVDS0_LINK2_CON_DN
19	GND	20	GND
21	LVDS1_LINK1_CON_DP	22	LVDS1_LINK0_CON_DP
23	LVDS1_LINK1_CON_DN	24	LVDS1_LINK0_CON_DN
25	GND	26	GND
27	LVDS1_LINK3_CON_DP	28	LVDS1_LINK2_CON_DP
29	LVDS1_LINK3_CON_DN	30	LVDS1_LINK2_CON_DN
31	GND	32	GND
33	LVDS1_CLK_CON_DP	34	LVDS0_CLK_CON_DP
35	LVDS1_CLK_CON_DN	36	LVDS0_CLK_CON_DN
37	GND	38	GND
39	BKLT_PWR (12V)	40	BKLT_PWR (12V)

2 x RS232/422/485



Define	pin	RS232	RS422	RS485	pin	RS232	RS422	RS485
COM1	1	DCD	TX-	DATA-	2	RX	TX+	DATA+
	3	TX	RX-	NC	4	DTR	RX+	NC
	5	GND	GND	GND	6	DSR	NC	NC
	7	RTS	NC	NC	8	CTS	NC	NC
	9	RI	NC	NC	10	none	none	none
COM2	11	DCD	No support RS422	No support RS485	12	RX	No support RS422	No support RS485
	13	TX			14	DTR		
	15	GND			16	DSR		
	17	RTS			18	CTS		
	19	RI			20	none		

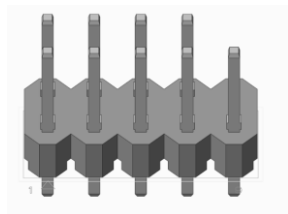
2 x RS232

Define	pin	RS232	RS422	RS485	pin	RS232	RS422	RS485
COM3	1	DCD	No support RS422	No support RS485	2	RX	No support RS422	No support RS485
	3	TX			4	DTR		
	5	GND			6	DSR		
	7	RTS			8	CTS		
	9	RI			10	none		
COM4	11	DCD	No support RS422	No support RS485	12	RX	No support RS422	No support RS485
	13	TX			14	DTR		
	15	GND			16	DSR		
	17	RTS			18	CTS		
	19	RI			20	none		

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13th Gen Intel® Core™ i7/i5/i3 Mobile Processor onboard, 3.5" SBC

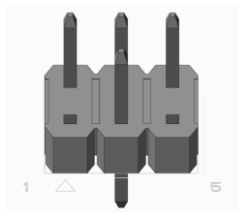
■ Front IO header



Pin	Description	Pin	Description
1	HHD_LED+	2	PWR_LED+
3	HHD_LED-	4	PWR_LED-
5	GND	6	PWR_BTN
7	RST	8	GND
9	+5V	10	Key

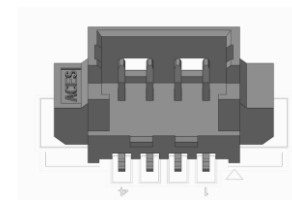
■ Power COM Selection Jumper

Type	Jumper	Remark
12V	(2-4)	
RI	(3-4)	Default
5V	(4-6)	



■ CPU FAN Header

Pin	Signal
1	Ground
2	+12V
3	FAN_TACH
4	FAN_CTRL



■ USB2.0 Header (1x Port)

Pin	Signal
1	USB_5V
2	USB2_N
3	USB2_P
4	GND

