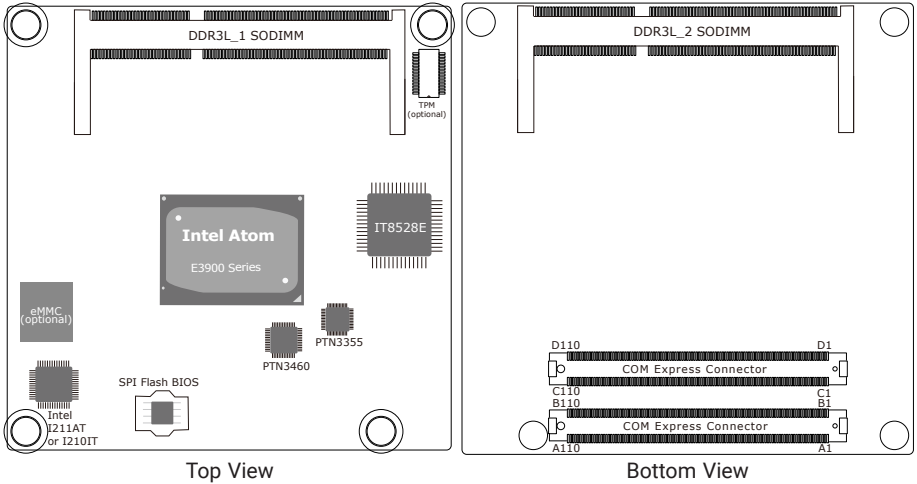


## Board Layout and COM Express Pin Assignments



Row A	Row B
A1	GND (FIXED)
A2	GBE0_MDI3-
A3	GBE0_MDI3+
A4	GBE0_LINK100#
A5	GBE0_LINK1000#
A6	GBE0_MDI2-
A7	GBE0_MDI2+
A8	GBE0_LINK#
A9	GBE0_MDI1-
A10	GBE0_MDI1+
A11	GND (FIXED)
A12	GBE0_MDI0-
A13	GBE0_MDI0+
A14	NA
A15	SUS_S3#
A16	SATA0_TX+
A17	SATA0_TX-
A18	SUS_S4#
A19	SATA0_RX+
B1	GND (FIXED)
B2	GBE0_ACT#
B3	LPC_FRAME#
B4	LPC_AD0
B5	LPC_AD1
B6	LPC_AD2
B7	LPC_AD3
B8	NA
B9	NA
B10	LPC_CLK
B11	GND (FIXED)
B12	PWRBTN#
B13	SMB_CK
B14	SMB_DAT
B15	SMB_ALERT#
B16	SATA1_TX+
B17	SATA1_TX-
B18	SUS_STAT#
B19	SATA1_RX+

Row A	Row B
A20	SATA0_RX-
A21	GND (FIXED)
A22	NA
A23	NA
A24	SUS_S5#
A25	NA
A26	NA
A27	BATLOW#
A28	(S)ATA_ACT#
A29	AC/HDA_SYNC
A30	AC/HDA_RST#
A31	GND (FIXED)
A32	AC/HDA_BITCLK
A33	AC/HDA_SDOOUT
A34	BIOS_DIS0#
A35	THRMTrip#
A36	USB6-
A37	USB6+
A38	USB_6_7_OC#
B20	SATA1_RX-
B21	GND (FIXED)
B22	NA
B23	NA
B24	PWR_OK
B25	NA
B26	NA
B27	WDT
B28	NA
B29	NA
B30	AC/HDA_SDINO
B31	GND (FIXED)
B32	SPKR
B33	I2C_CK
B34	I2C_DAT
B35	THRm#
B36	USB7-
B37	USB7+
B38	USB_4_5_OC#

Row A	Row B	Row A	Row B
A39	USB4-	B39	USB5-
A40	USB4+	B40	USB5+
A41	GND (FIXED)	B41	GND (FIXED)
A42	USB2-	B42	USB3-
A43	USB2+	B43	USB3+
A44	USB_2_3_OC#	B44	USB_0_1_OC#
A45	USB0-	B45	USB1-
A46	USB0+	B46	USB1+
A47	VCC_RTC	B47	NA
A48	NA	B48	NA
A49	NA	B49	SYS_RESET#
A50	LPC_SERIRQ	B50	CB_RESET#
A51	GND (FIXED)	B51	GND (FIXED)
A52	NA	B52	NA
A53	NA	B53	NA
A54	GPIO	B54	GPO1
A55	NA	B55	NA
A56	NA	B56	NA
A57	GND	B57	GPO2
A58	PCIE_TX3+	B58	PCIE_RX3+
A59	PCIE_TX3-	B59	PCIE_RX3-
A60	GND (FIXED)	B60	GND (FIXED)
A61	PCIE_TX2+	B61	PCIE_RX2+
A62	PCIE_TX2-	B62	PCIE_RX2-
A63	GPIO1	B63	GPO3
A64	PCIE_TX1+	B64	PCIE_RX1+
A65	PCIE_TX1-	B65	PCIE_RX1-
A66	GND	B66	WAKE0#
A67	GPIO2	B67	WAKE1#
A68	PCIE_TX0+	B68	PCIE_RX0+
A69	PCIE_TX0-	B69	PCIE_RX0-
A70	GND (FIXED)	B70	GND (FIXED)
A71	LVDS_A0+/eDP_TX2+*	B71	LVDS_B0+
A72	LVDS_A0-/eDP_TX2-*	B72	LVDS_B0-
A73	LVDS_A1+/eDP_TX1+*	B73	LVDS_B1+
A74	LVDS_A1-/eDP_TX1-*	B74	LVDS_B1-
A75	LVDS_A2+/eDP_TX0+*	B75	LVDS_B2+
A76	LVDS_A2-/eDP_TX0-*	B76	LVDS_B2-
A77	LVDS/eDP_VDD_EN*	B77	LVDS_B3+
A78	LVDS_A3+	B78	LVDS_B3-
A79	LVDS_A3-	B79	LVDS/eDP_BKLT_EN*
A80	GND (FIXED)	B80	GND (FIXED)
A81	LVDS_A_CK+/eDP_TX3+*	B81	LVDS_B_CK+
A82	LVDS_A_CK-/eDP_TX3-*	B82	LVDS_B_CK-
A83	LVDS_I2C_CK/eDP_AUX+*	B83	LVDS/eDP_BKLT_CTRL*
A84	LVDS_I2C_DAT/eDP_AUX-*	B84	VCC_5V_SBY
A85	GPIO3	B85	VCC_5V_SBY
A86	RSVD	B86	VCC_5V_SBY
A87	RSVD/eDP_HPDP*	B87	VCC_5V_SBY
A88	PCIE_CK_REF+	B88	BIOS_DIS1#
A89	PCIE_CK_REF-	B89	VGA_RED
A90	GND (FIXED)	B90	GND (FIXED)
A91	SPL_POWER	B91	VGA_GRN
A92	SPL_MISO	B92	VGA_BLU
A93	GPO0	B93	VGA_HSYNC
A94	SPL_CLK	B94	VGA_VSYNC
A95	SPL_MOSI	B95	VGA_I2C_CK
A96	TPM_PP	B96	VGA_I2C_DAT
A97	NA	B97	SPL_CS#
A98	SER0_TX	B98	RSVD
A99	SER0_RX	B99	RSVD
A100	GND (FIXED)	B100	GND (FIXED)
A101	SER1_TX	B101	FAN_PWMOUT
A102	SER1_RX	B102	FAN_TACHIN
A103	LID#	B103	SLEEP#
A104	VCC_12V	B104	VCC_12V
A105	VCC_12V	B105	VCC_12V
A106	VCC_12V	B106	VCC_12V
A107	VCC_12V	B107	VCC_12V
A108	VCC_12V	B108	VCC_12V
A109	VCC_12V	B109	VCC_12V
A110	GND (FIXED)	B110	GND (FIXED)

Row C	Row D
C1	GND (FIXED)
C2	GND
C3	USB_SSRX0-
C4	USB_SSRX0+
C5	GND
C6	USB_SSRX1-
C7	USB_SSRX1+
C8	GND
C9	USB_SSRX2-
C10	USB_SSRX2+
C11	GND (FIXED)
C12	USB_SSRX3-
C13	USB_SSRX3+
C14	GND
C15	NA
C16	NA
C17	RSVD
C18	RSVD
C19	NA
C20	NA
C21	GND (FIXED)
C22	NA
C23	NA
C24	DDI1_HPD
C25	NA
C26	NA
C27	RSVD
C28	RSVD
C29	NA
C30	NA
C31	GND (FIXED)
C32	DDI2_CTRLCLK_AUX+
C33	DDI2_CTRLCLK_AUX-
C34	DDI2_DDC_AUX_SEL
C35	RSVD
C36	NA
C37	NA
C38	NA
C39	NA
C40	NA
D1	GND (FIXED)
D2	GND
D3	USB_SSTX0-
D4	USB_SSTX0+
D5	GND
D6	USB_SSTX1-
D7	USB_SSTX1+
D8	GND
D9	USB_SSTX2-
D10	USB_SSTX2+
D11	GND (FIXED)
D12	USB_SSTX3-
D13	USB_SSTX3+
D14	GND
D15	DDI1_CTRLCLK_AUX+
D16	DDI1_CTRLCLK_AUX-
D17	RSVD
D18	RSVD
D19	NA
D20	NA
D21	GND (FIXED)
D22	NA
D23	NA
D24	RSVD
D25	RSVD
D26	DDI1_PAIR0+
D27	DDI1_PAIR0-
D28	RSVD
D29	DDI1_PAIR1+
D30	DDI1_PAIR1-
D31	GND (FIXED)
D32	DDI1_PAIR2+
D33	DDI1_PAIR2-
D34	DDI1_DDC_AUX_SEL
D35	RSVD
D36	DDI1_PAIR3+
D37	DDI1_PAIR3-
D38	RSVD
D39	DDI2_PAIR0+
D40	DDI2_PAIR0-

Row C	Row D
C41	GND (FIXED)
C42	NA
C43	NA
C44	NA
C45	RSVD
C46	NA
C47	NA
C48	RSVD
C49	NA
C50	NA
C51	GND (FIXED)
C52	NA
C53	NA
C54	Type 0 #
C55	NA
C56	NA
C57	Type 1 #
C58	NA
C59	NA
C60	GND (FIXED)
C61	NA
C62	NA
C63	RSVD
C64	RSVD
C65	NA
C66	NA
C67	RSVD
C68	NA
C69	NA
C70	GND (FIXED)
C71	NA
C72	NA
C73	GND
C74	NA
C75	NA
C76	GND
C77	RSVD
C78	NA
C79	NA
C80	GND (FIXED)
C81	NA
C82	NA
C83	RSVD
D41	GND (FIXED)
D42	DDI2_PAIR1+
D43	DDI2_PAIR1-
D44	DDI2_HPD
D45	RSVD
D46	DDI2_PAIR2+
D47	DDI2_PAIR2-
D48	RSVD
D49	DDI2_PAIR3+
D50	DDI2_PAIR3-
D51	GND (FIXED)
D52	NA
D53	NA
D54	PEG_LANE_RV#
D55	NA
D56	NA
D57	Type 2 #
D58	NA
D59	NA
D60	GND (FIXED)
D61	NA
D62	NA
D63	RSVD
D64	RSVD
D65	NA
D66	NA
D67	GND
D68	NA
D69	NA
D70	GND (FIXED)
D71	NA
D72	NA
D73	GND
D74	NA
D75	NA
D76	GND
D77	RSVD
D78	NA
D79	NA
D80	GND (FIXED)
D81	NA
D82	NA
D83	RSVD

Row C	Row D
C84 GND	D84 GND
C85 NA	D85 NA
C86 NA	D86 NA
C87 GND	D87 GND
C88 NA	D88 NA
C89 NA	D89 NA
C90 GND (FIXED)	D90 GND (FIXED)
C91 NA	D91 NA
C92 NA	D92 NA
C93 GND	D93 GND
C94 NA	D94 NA
C95 NA	D95 NA
C96 GND	D96 GND
C97 RSVD	D97 RSVD
C98 NA	D98 NA
C99 NA	D99 NA
C100 GND (FIXED)	D100 GND (FIXED)
C101 NA	D101 NA
C102 NA	D102 NA
C103 GND	D103 GND
C104 VCC_12V	D104 VCC_12V
C105 VCC_12V	D105 VCC_12V
C106 VCC_12V	D106 VCC_12V
C107 VCC_12V	D107 VCC_12V
C108 VCC_12V	D108 VCC_12V
C109 VCC_12V	D109 VCC_12V
C110 GND (FIXED)	D110 GND (FIXED)



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