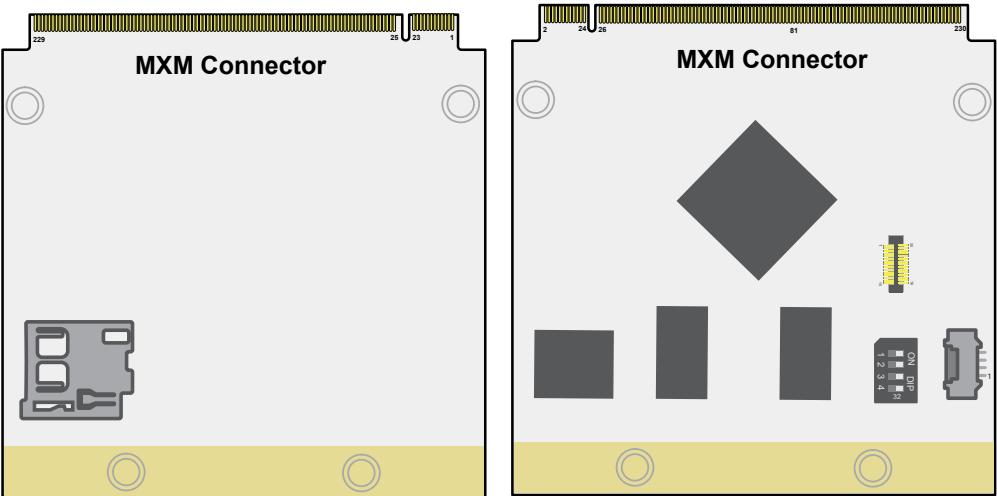


Board Layout and COM Express Pin Assignments



► COM Express Pin Assignments

Pin List for Pin-Out Type 10

The table below is a comprehensive list of all signal pins supported on the 230-pin MXM connectors.

Pin	Signal	Pin	Signal
1	GND_1	2	GND_2
3	GBE_MDI3-	4	GBE_MDI2-
5	GBE_MDI3+	6	GBE_MDI2+
7	GBE_LINK100#	8	GBE_LINK1000#
9	GBE_MDI1-	10	GBE_MDI0-
11	GBE_MDI1+	12	GBE_MDI0+
13	N/A	14	GBE_ACT#
15	N/A	16	N/A
17	PCIE1_WAKE#	18	N/A
19	GPO0	20	PWRBTN#
21	GPII1	22	GPII0
23	GND_23	24	GND_24
25	GND_25	26	CB_PWROK
27	GPII2	28	RSTBTN#
29	SATA0_TX+	30	SATA1_TX+
31	SATA0_TX-	32	SATA1_TX-
33	SATA_ACT#	34	GND_34
35	SATA0_RX+	36	SATA1_RX+
37	SATA0_RX-	38	SATA1_RX-
39	GND_39	40	GND_40
41	BOOT_ALT#	42	SDIO_CLK#
43	SDIO_CD#	44	N/A
45	SDIO_CMD	46	N/A
47	SDIO_PWREN	48	SDIO_DAT1
49	SDIO_DAT0	50	SDIO_DAT3

Pin	Signal	Pin	Signal
51	SDIO_DAT2	52	UART1_TX
53	UART2_TX	54	UART1_RX
55	UART2_RX	56	N/A
57	GND_57	58	GND_58
59	I2S_LRCK	60	GP1_I2C_CLK
61	I2S_MCLK	62	GP1_I2C_DAT
63	I2S_SCLK	64	GPIO
65	I2S_SDI	66	GP0_I2C_CLK
67	I2S_SDO	68	GP0_I2C_DAT
69	PCIE20_REFCLKP	70	WDTRIG#
71	PCIE20_REFCLKN	72	WDOUT
73	GND_73	74	GND_74
75	USB_SSTX0-	76	USB_SSRX0-
77	USB_SSTX0+	78	USB_SSRX0+
79	N/A	80	N/A
81	N/A	82	N/A
83	N/A	84	N/A
85	N/A	86	N/A
87	USB_P3-	88	USB_P2-
89	USB_P3+	90	USB_P2+
91	USB_VBUS	92	USB3_OTG0ID
93	USB_P1-	94	USB_P0-
95	USB_P1+	96	USB_P0+
97	GND_97	98	GND_98
99	eDP0_TX0+	100	LVDS_B0+
101	eDP0_TX0-	102	LVDS_B0-
103	eDP0_TX1+	104	LVDS_B1+
105	eDP0_TX1-	106	LVDS_B1-
107	eDP0_TX2+	108	LVDS_B2+
109	eDP0_TX2-	110	LVDS_B2-

Pin	Signal	Pin	Signal
111	LVDS_PPEN	112	LVDS_BLEN
113	eDP0_TX3+	114	LVDS_B3+
115	eDP0_TX3-	116	LVDS_B3-
117	GND_117	118	GND_118
119	eDP0_AUX+	120	LVDS_B_CLK+
121	eDP0_AUX-	122	LVDS_B_CLK-
123	BKLTCTL	124	HDMI_CEC_IN
125	N/A	126	LVDS_BLC_DAT
127	N/A	128	LVDS_BLC_CLK
129	CAN0_TX	130	CAN0_RX
131	HDMI_CLK+	132	USB3_OTG0TX-
133	HDMI_CLK-	134	USB3_OTG0TX+
135	GND_135	136	GND_136
137	HDMI_LANE1+	138	N/A
139	HDMI_LANE1-	140	N/A
141	GND_141	142	GND_142
143	HDMI_LANE0+	144	USB3_OTG0RX-
145	HDMI_LANE0-	146	USB3_OTG0RX+
147	GND_147	148	GND_148
149	HDMI_LANE2+	150	HDMI_CTRL_DAT
151	HDMI_LANE2-	152	HDMI_CTRL_CLK
153	HDMI_HPD#	154	N/A
155	PCIE_CLK_REF+	156	PCIE_WAKE#
157	PCIE_CLK_REF-	158	PCIE_RST#
159	GND_159	160	GND_160
161	N/A	162	N/A
163	N/A	164	N/A
165	GND_165	166	GND_166
167	PCIE2_TX+	168	PCIE2_RX+
169	PCIE2_TX-	170	PCIE2_RX-

Pin	Signal	Pin	Signal
171	UART0_TX	172	UART0_RTS#
173	PCIE1_TX+	174	PCIE1_RX+
175	PCIE1_TX-	176	PCIE1_RX-
177	UART0_RX	178	UART0_CTS#
179	PCIE0_TX+	180	PCIE0_RX+
181	PCIE0_TX-	182	PCIE0_RX-
183	GND_183	184	GND_184
185	SPI0_MOSI	186	SPI0_CS0#
187	SPI0_MISO	188	SPI0_CS1#
189	SPI0_CLK	190	GPIO5
191	GPIO6	192	GPIO7
193	VCC_RTC	194	SPK_OUT+
195	SPK_OUT-	196	PWM_OUT1
197	GND_197	198	GND_198
199	SPI2_MOSI	200	SPI2_CS0#
201	SPI2_MISO	202	SPI2_CS1#
203	SPI2_CLK	204	N/A
205	VCC_5V	206	VCC_5V
207	N/A	208	UART3_RX
209	UART3_TX	210	N/A
211	N/A	212	N/A
213	N/A	214	N/A
215	N/A	216	N/A
217	N/A	218	N/A
219	VCC	220	VCC
221	VCC	222	VCC
223	VCC	224	VCC
225	VCC	226	VCC
227	VCC	228	VCC
229	VCC	230	VCC



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