

SOM CONNECTOR PINOUTS (Connector - ST4-50-1.00-L-D-P-TR)

PIN No	NET NAME
J2.1	GND
J2.2	GND
J2.3	VCOIN_BATT
J2.4	USB1_SS_TX_P
J2.5	SDC2_CLK
J2.6	USB1_SS_TX_N
J2.7	SDC2_D1
J2.8	GND
J2.9	SDC2_D3
J2.10	USB1_SS_RX_P
J2.11	SDC2_CMD
J2.12	USB1_SS_RX_N
J2.13	SD_CARD_DET
J2.14	GND
J2.15	SDC2_D0
J2.16	USB1_HS_D_P
J2.17	SDC2_D2
J2.18	USB1_HS_D_N
J2.19	GND
J2.20	GND
J2.21	JTAG_SRST_N
J2.22	USB2_HS_D_N
J2.23	JTAG_TDI
J2.24	USB2_HS_D_P
J2.25	JTAG_TMS
J2.26	GND
J2.27	JTAG_TRST_N
J2.28	BLSP1_4
J2.29	JTAG_TCK
J2.30	ALL_USE_SERIAL_NUM
J2.31	JTAG_TDO
J2.32	MSA_PK_HASH_IN_FUSE
J2.33	GND
J2.34	AP_AUTH_EN
J2.35	BLSP1_1
J2.36	AP_PK_HASH_IN_FUSE
J2.37	BLSP1_3
J2.38	MSA_AUTH_EN
J2.39	BLSP1_2
J2.40	BLSP1_0
J2.41	BOOT_CONFIG3
J2.42	BLSP5_3
J2.43	PWR_SRC_CTRL

PIN No	NET NAME
J3.1	VPWR_SOM
J3.2	VPWR_SOM
J3.3	VPWR_SOM
J3.4	VPWR_SOM
J3.5	VPWR_SOM
J3.6	VPWR_SOM
J3.7	GND
J3.8	GND
J3.9	MIPI_CSI0_D1_P
J3.10	MIPI_CSI0_D2_N
J3.11	MIPI_CSI0_D1_N
J3.12	MIPI_CSI0_D2_P
J3.13	GND
J3.14	GND
J3.15	MIPI_CSI0_D0_P
J3.16	MIPI_CSI0_D3_P
J3.17	MIPI_CSI0_D0_N
J3.18	MIPI_CSI0_D3_N
J3.19	GND
J3.20	GND
J3.21	MIPI_CSI0_CLK_N
J3.22	MIPI_DSI1_D2_N
J3.23	MIPI_CSI0_CLK_P
J3.24	MIPI_DSI1_D2_P
J3.25	GND
J3.26	GND
J3.27	CCI_I2C0_SCL
J3.28	MIPI_DSI1_CLK_P
J3.29	CCI_I2C0_SDA
J3.30	MIPI_DSI1_CLK_N
J3.31	STAT_CHG
J3.32	GND
J3.33	BAT_ID
J3.34	MIPI_DSI1_D3_N
J3.35	BAT_THERM
J3.36	MIPI_DSI1_D3_P
J3.37	PMI_SYS_ON
J3.38	GND
J3.39	PMI_CS_PLUS
J3.40	MIPI_DSI1_D0_N
J3.41	PMI_CS_MINUS
J3.42	MIPI_DSI1_D0_P
J3.43	GND

PIN No	NET NAME
J4.1	GND
J4.2	GND
J4.3	PCIE1_CLK_P
J4.4	PCIE1_RX_P
J4.5	PCIE1_CLK_N
J4.6	PCIE1_RX_N
J4.7	GND
J4.8	GND
J4.9	CODEC_AMIC3_INM
J4.10	PCIE1_TX_P
J4.11	CODEC_AMIC3_INP
J4.12	PCIE1_TX_N
J4.13	GND
J4.14	GND
J4.15	CODEC_AMIC1_INM
J4.16	PCIE1_WAKE
J4.17	CODEC_AMIC1_INP
J4.18	PCIE1_RSTN
J4.19	GND
J4.20	PCIE1_CLKREQN
J4.21	CODEC_LINEOUT4
J4.22	MIC_BIAS2_CON
J4.23	CODEC_LINEOUT3
J4.24	MIC_BIAS1_CON
J4.25	GND
J4.26	CODEC_PDM_DATA
J4.27	CODEC_HPH_R
J4.28	CODEC_PDM_CLK
J4.29	CODEC_HPH_L
J4.30	CODEC_HPH_REF
J4.31	GND
J4.32	GND
J4.33	CODEC_AMIC2_INM
J4.34	CBL_PWR_N
J4.35	CODEC_AMIC2_INP
J4.36	PM_MPP_06
J4.37	GND
J4.38	SOM_GP_SW1
J4.39	CODEC_DMIC1_DATA
J4.40	SOM_GP_SW2
J4.41	CODEC_DMIC1_CLK
J4.42	PCIE2_CLKREQN
J4.43	CODEC_DMIC2_CLK

PIN No	NET NAME
J2.44	BLSP5_2
J2.45	MI2S3_SCK
J2.46	BLSP5_0
J2.47	MI2S3_D0
J2.48	BLSP5_1
J2.49	MI2S3_WS
J2.50	GND
J2.51	ALERTN_C
J2.52	BOOT_CONFIG5
J2.53	APQ_PWREN
J2.54	BOOT_CONFIG2
J2.55	APQ_RSTN
J2.56	FORCE_USB_BOOT
J2.57	APQ_RESOUT_N
J2.58	PWR_CTRL2
J2.59	GND
J2.60	CABLE_DET_C
J2.61	SOM_PWR_OFFN
J2.62	BOOT_CONFIG1
J2.63	SSC_SPI2_MISO
J2.64	BOOT_CONFIG7
J2.65	SSC_SPI2_CLK
J2.66	BOOT_CONFIG4
J2.67	SSC_SPI2_MOSI
J2.68	FORCE_MSA_AUTH_EN
J2.69	SSC_SPI2_CSN
J2.70	VBUS_CTRL
J2.71	SSC_SPI1_CSN
J2.72	BOOT_CONFIG8
J2.73	SSC_SPI1_MISO
J2.74	BOOT_CONFIG6
J2.75	SSC_SPI1_MOSI
J2.76	VMON_INT
J2.77	SSC_SPI1_CLK
J2.78	PWR_CTRL1
J2.79	SSC_EXP_INT1
J2.80	WDOG_DISABLE
J2.81	GND
J2.82	BLSP7_I2C_SDA
J2.83	HAP_PWM_IN
J2.84	BLSP7_I2C_SCL
J2.85	HAP_OUT_P
J2.86	GND
J2.87	HAP_OUT_N
J2.88	PMI_LED_B
J2.89	SOM_VOL_UP

PIN No	NET NAME
J3.44	GND
J3.45	IO_EXPN_INT
J3.46	MIPI_DSI1_D1_N
J3.47	BLSP_EXP_AIN1
J3.48	MIPI_DSI1_D1_P
J3.49	BLSP_EXP_AIN2
J3.50	GND
J3.51	BLSP_EXP_PWM1
J3.52	CAM0_FLASH_EN
J3.53	BLSP_EXP_PWM2
J3.54	CAM0_FLASH_STROBE_TRIG
J3.55	BLSP8_UART_TX
J3.56	CAM_MCLK0
J3.57	BLSP8_UART_RX
J3.58	CAM0_STANDBY_N
J3.59	BLSP12_2
J3.60	CAM0_RST_N
J3.61	BLSP12_3
J3.62	TP_INT_N
J3.63	BLSP12_I2C_SCL
J3.64	LCD_BL_PWM
J3.65	BLSP12_I2C_SDA
J3.66	MDP_VSYNC_S
J3.67	HDMI_DDC_DATA
J3.68	MDP_VSYNC_P
J3.69	HDMI_DDC_CLK
J3.70	GND
J3.71	HDMI_HPD
J3.72	MIPI_DSI0_D0_P
J3.73	HDMI_CEC
J3.74	MIPI_DSI0_D0_N
J3.75	GND
J3.76	GND
J3.77	HDMI_TX2_N
J3.78	MIPI_DSI0_D1_P
J3.79	HDMI_TX2_P
J3.80	MIPI_DSI0_D1_N
J3.81	GND
J3.82	GND
J3.83	HDMI_TX1_N
J3.84	MIPI_DSI0_D2_N
J3.85	HDMI_TX1_P
J3.86	MIPI_DSI0_D2_P
J3.87	GND
J3.88	GND
J3.89	HDMI_TX0_N

PIN No	NET NAME
J4.44	PCIE2_WAKE
J4.45	CODEC_DMIC2_DATA
J4.46	GND
J4.47	CODEC_HSDDET_L
J4.48	PCIE2_CLK_P
J4.49	AUD_AMP_SDN
J4.50	PCIE2_CLK_N
J4.51	GND
J4.52	GND
J4.53	PCIE2_TX_P
J4.54	PCIE2_RX_P
J4.55	PCIE2_TX_N
J4.56	PCIE2_RX_N
J4.57	GND
J4.58	GND
J4.59	GND
J4.60	BLSP6_0
J4.61	CCI_I2C1_SCL
J4.62	BLSP6_1
J4.63	CCI_I2C1_SDA
J4.64	CAM1_FLASH_EN
J4.65	CAM1_RST_N
J4.66	CAM1_FLASH_STROBE_TRIG
J4.67	CAM1_STANDBY_N
J4.68	CAM_MCLK1
J4.69	GND
J4.70	GND
J4.71	MIPI_CSI1_D2_P
J4.72	MIPI_CSI2_D3_P
J4.73	MIPI_CSI1_D2_N
J4.74	MIPI_CSI2_D3_N
J4.75	GND
J4.76	GND
J4.77	MIPI_CSI1_D3_P
J4.78	MIPI_CSI2_D2_P
J4.79	MIPI_CSI1_D3_N
J4.80	MIPI_CSI2_D2_N
J4.81	GND
J4.82	GND
J4.83	MIPI_CSI1_D1_P
J4.84	MIPI_CSI2_D0_P
J4.85	MIPI_CSI1_D1_N
J4.86	MIPI_CSI2_D0_N
J4.87	GND
J4.88	GND
J4.89	MIPI_CSI1_D0_P

PIN No	NET NAME
J2.90	PMI_LED_R
J2.91	SOM_VOL_DOWN
J2.92	PMI_LED_G
J2.93	GND
J2.94	GND
J2.95	V1P8_PM_S4
J2.96	USB_VBUS_IN
J2.97	USB_HV_CNTL
J2.98	USB_VBUS_IN
J2.99	USB_ID
J2.100	USB_VBUS_IN

PIN No	NET NAME
J3.90	MIPI_DSI0_D3_N
J3.91	HDMI_TX0_P
J3.92	MIPI_DSI0_D3_P
J3.93	GND
J3.94	GND
J3.95	HDMI_CLK_N
J3.96	MIPI_DSI0_CLK_P
J3.97	HDMI_CLK_P
J3.98	MIPI_DSI0_CLK_N
J3.99	GND
J3.100	GND

PIN No	NET NAME
J4.90	MIPI_CSI2_CLK_P
J4.91	MIPI_CSI1_D0_N
J4.92	MIPI_CSI2_CLK_N
J4.93	GND
J4.94	GND
J4.95	MIPI_CSI1_CLK_P
J4.96	MIPI_CSI2_D1_P
J4.97	MIPI_CSI1_CLK_N
J4.98	MIPI_CSI2_D1_N
J4.99	GND
J4.100	GND