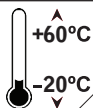


**Wide Operating
Temperature**



COMX-A300

COM-HPC® Client Size A Module

Quick Installation Guide

Version 1.0

Form Factor <i>COM-HPC® Client Size A Module</i>	CPU <i>Intel® Core™ Ultra Processor Series 2 Arrow Lake U/H</i>	Video <i>Intel® Xe LPG+ Graphics eDP/DDI</i>
LAN <i>Dual Intel® i226LM 2.5GbE Ethernet Controllers</i>	Audio <i>HD Audio Link I²S / SoundWire</i>	I/O <i>USB4 / USB 3.2 PCIe Gen5 / SATA3.0 MIPI CSI / I²C / UART</i>

◆ Technical Support

If you have any technical difficulties, please consult the user manual first on our website.

<http://www.arbor-technology.com>

Please do not hesitate to call or e-mail our customer service when you still can not find out the answer.

E-mail: info@arbor.com.tw

COM-HPC® Client Size A is a PICMG® standard Computer-on-Module specification designed for next-generation high-performance embedded computing. It features two high-speed 400-pin connectors (800 pins total) that support PCIe Gen5, USB4, 2.5GbE, high-speed display interfaces, and scalable I/O expansion.

The COMX-A300 is fully compliant with the COM-HPC Client Size A specification while integrating Intel® Core™ Ultra Processors Series 2 (Arrow Lake U/H) and advanced high-speed interfaces for AI, edge computing, and industrial applications.

Packing List

Before you begin installing your single board, please make sure that the following materials have been shipped:



1 x COMX-A300 COM-HPC Client Size A Module

If any of the above items is damaged or missing, contact your vendor immediately.

Specifications

System	
CPU	Onboard Intel® Core™ Ultra Processors Series 2 Core™ Ultra 7 255H/255U Core™ Ultra 5 225H/225U
Memory	2 x 262-pin DDR5 SO-DIMM sockets, supporting up to 128GB (2 x 64GB) 6400 MT/s
Graphics	Intel® ARC (H only) Xe LPG+ graphics
Graphic Interface	3 x DDI ports and 1 x eDP
SATA	2 x SATA (share with PCIe)
LAN	2 x Intel® I226LM 2.5GbE controllers
Watchdog Timer	1~255 levels reset
TPM	dTPM 2.0
I/O	
Serial Port	GPIO: 12 bit GPIO (default 6 input / 6 output) I ² C Baud Rate: 400KHz SMBus Baud Rate: 100KHz 2 x UART TX/RX signal only 2 x MIPI CSI 1 x Debug Port
USB	2 x USB 4 2 x USB 3.2 Gen2 8 x USB 2.0
LAN	2 x Ethernet with TSN & WOL support
Audio Bus	Supports HD link or I ² S or 2 Soundwire
Expansion Bus	4 x PCIe x1 Gen4 (Lane 0-3), configurable to x1, x2, x4 2 x PCIe x4 Gen4 (Lane 4-7, 8-11) 1 x PCIe x4 Gen4 (Lane 12-15) shared with optional onboard NVMe 4 x PCIe x1 Gen4 (Lane 16-19), *BOM optional and configurable to x1, x2, x4 1 x PCIe x8 Gen5 (Lane 32-39), Processor H only
OS Support	
System	Windows® 10 IoT Enterprise 64-bit Windows® 11 IoT Enterprise 64-bit Linux (Ubuntu 24.04)

Mechanical & Environmental	
Power Requirement	8V ~ 20V wide range voltage input, +5VSB
Operating Temp.	-20 ~ 60°C (-4 ~ 140°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 60°C (non-condensing)
Dimensions	95 x 120 mm (3.74" x 4.72")

Ordering Information

COMX-A300-255H	Intel Core Ultra 7 processor 255H COM-HPC Client Size A CPU Module
COMX-A300-225H	Intel Core Ultra 7 processor 225H COM-HPC Client Size A CPU Module
COMX-A300-255U	Intel Core Ultra 5 processor 255U COM-HPC Client Size A CPU Module
COMX-A300-225U	Intel Core Ultra 5 processor 225U COM-HPC Client Size A CPU Module

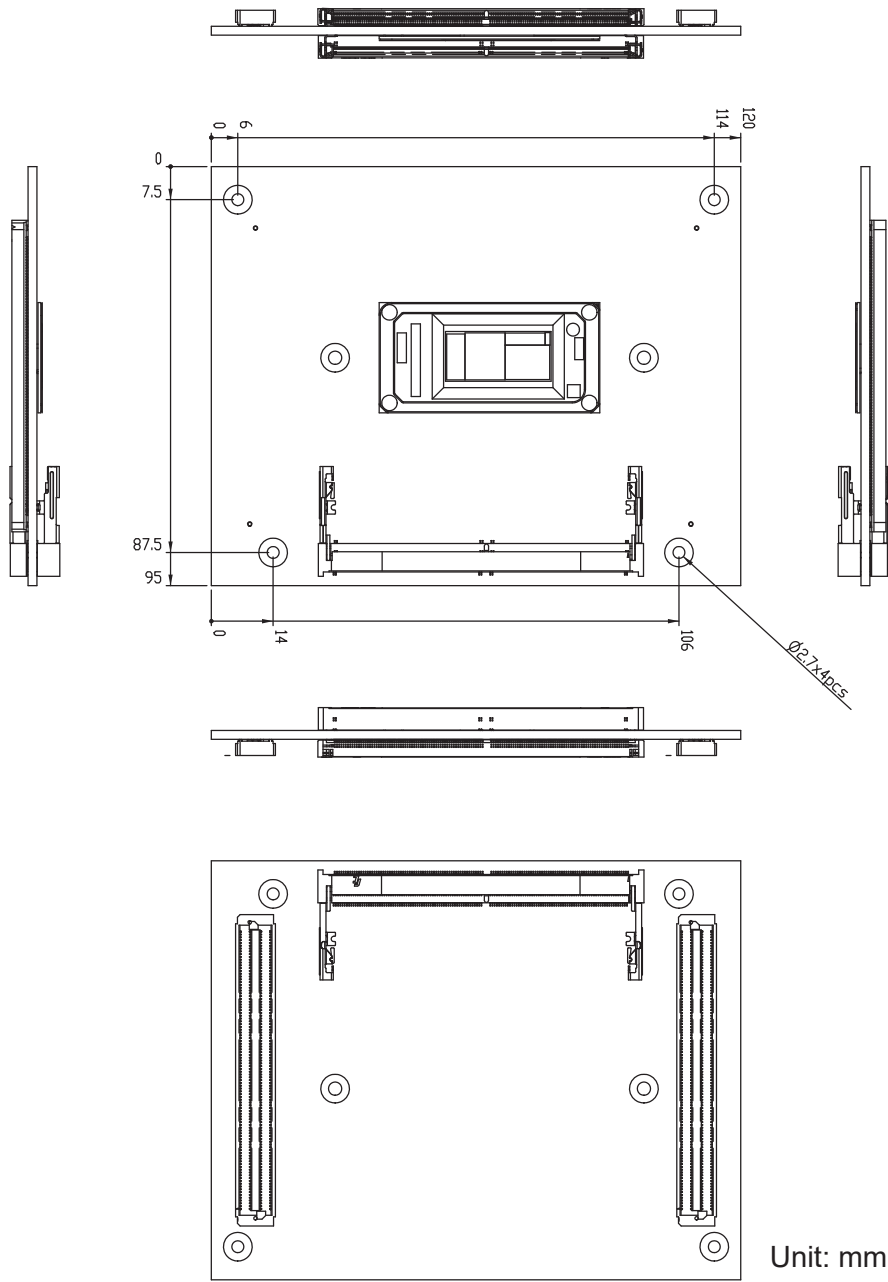
Optional Accessories

HS-A300-C1	Heat sink 95*120 mm, W/FAN+PAD
PBH-1200	COM-HPC Client evaluation carrier board in ATX or AT form factor

Driver Installation

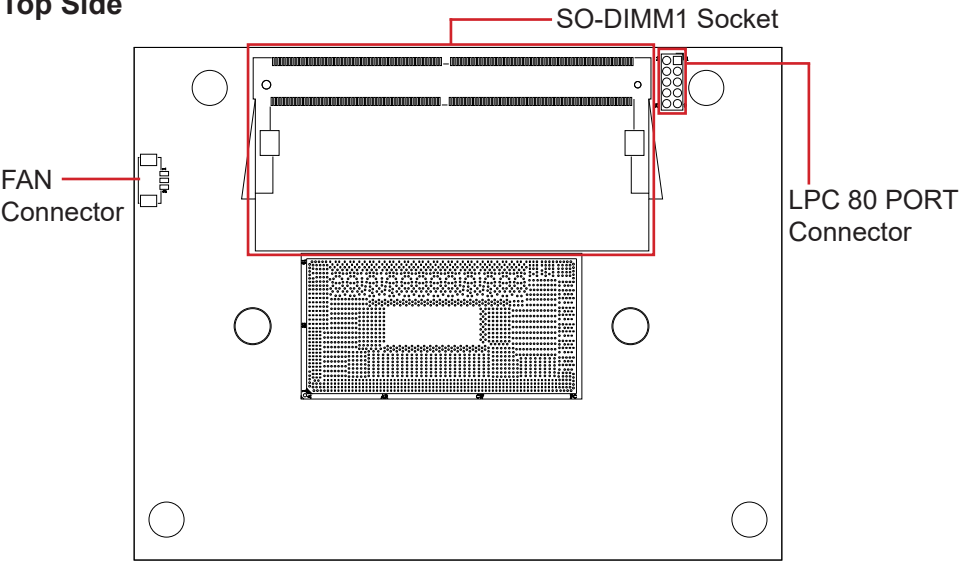
To install the drivers, please visit our website at www.arbor-technology.com and download the driver pack from the **Software Download** page.

Board Dimensions

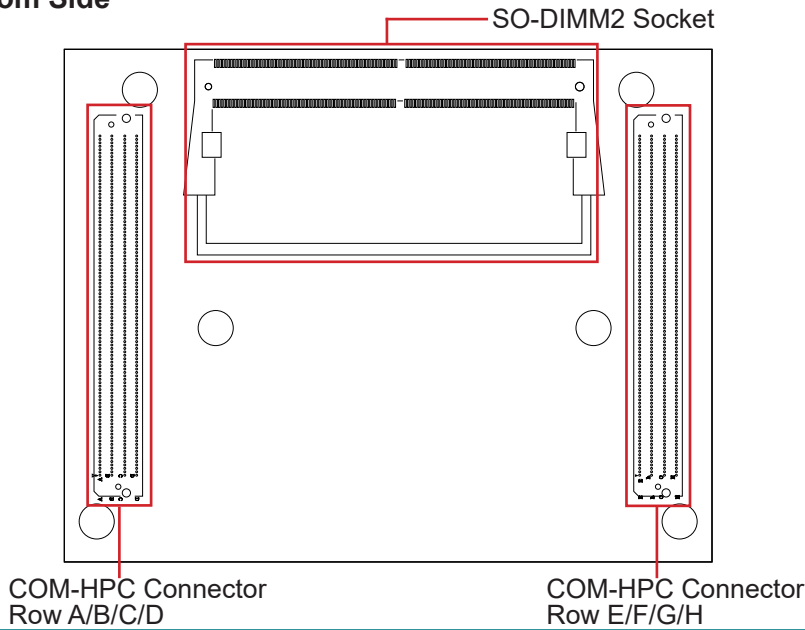


Connectors Quick Reference

Top Side



Bottom Side



FAN: Fan connector

Connector type: Wafer 3-pin 1.25mm 85204-0300L

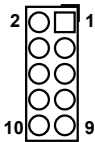
Pin	Description
1	GND
2	Fan out
3	Fan Tachometer Input



LPC 80 PORT connector

Connector type: 10-pin onboard connector

Pin	Description	Pin	Description
1	GND	2	CLK
3	AD0	4	FRAME#
5	SERIRQ	6	PLTRST#
7	AD2	8	AD3
9	AD1	10	V3P3S



COM-HPC Row AB Connector (bottom side)

B1	VCC	VCC	A1	B56	ESPI_RESET_N	SRCCLKREQ0_N	A56
B2	CB_PWRBTN#	VCC	A2	B57	GND	SRCCLKREQ7_N	A57
B3	VCC	VCC	A3	B58	Floating	GND	A58
B4	CB_TRIP#	VCC	A4	B59	Floating	Floating	A59
B5	VCC	VCC	A5	B60	GND	Floating	A60
B6	INTRUDER_N_SOC	VCC	A6	B61	PCIE_13_RXN	GND	A61
B7	VCC	VCC	A7	B62	PCIE_13_RXP	PCIE_13_TXN	A62
B8	SLP_S3#	VCC	A8	B63	GND	PCIE_13_TXP	A63
B9	VCC	VCC	A9	B64	PCIE_14_RXN	GND	A64
B10	Floating	GND	A10	B65	PCIE_14_RXP	PCIE_14_TXN	A65
B11	WDT	PM_BATLOW#	A11	B66	GND	PCIE_14_TXP	A66
B12	GND	CB_RESET#	A12	B67	PCIE_15_RXN	GND	A67
B13	USB5_DN	GND	A13	B68	PCIE_15_RXP	PCIE_15_TXN	A68
B14	USB5_DP	USB7_DN	A14	B69	GND	PCIE_15_TXP	A69
B15	GND	USB7_DP	A15	B70	PCIE_16_RXN	GND	A70
B16	USB4_DN	GND	A16	B71	PCIE_16_RXP	PCIE_16_TXN	A71
B17	USB4_DP	USB6_DN	A17	B72	GND	PCIE_16_TXP	A72
B18	GND	USB6_DP	A18	B73	PCIE_17_RXN	GND	A73
B19	HDA_SYNC	GND	A19	B74	PCIE_17_RXP	PCIE_17_TXN	A74
B20	HDA_SDOUT	DDIB_DATA_AUXN	A20	B75	GND	PCIE_17_TXP	A75
B21	HDA_RST_N	DDIB_CLK_AUXP	A21	B76	PCIE_18_RXN	GND	A76
B22	HDA_SDIN0	GND	A22	B77	PCIE_18_RXP	PCIE_18_TXN	A77
B23	HDA_BIT_CLK	DDIB_TX0N	A23	B78	GND	PCIE_18_TXP	A78
B24	+V5SB_CB	DDIB_TX0P	A24	B79	PCIE_19_RXN	GND	A79
B25	USB67_OC_3P3_N	GND	A25	B80	PCIE_19_RXP	PCIE_19_TXN	A80
B26	USB45_OC_3P3_N	DDIB_TX1N	A26	B81	GND	PCIE_19_TXP	A81
B27	USB_OC4567_N	DDIB_TX1P	A27	B82	PCIE_20_RXN	GND	A82
B28	USB_OC0123_N	GND	A28	B83	PCIE_20_RXP	PCIE_20_TXN	A83
B29	SML1_CLK	DDIB_TX2N	A29	B84	GND	PCIE_20_TXP	A84
B30	SML1_DATA	DDIB_TX2P	A30	B85	+V3P3A	GND	A85
B31	PMCALERT#	GND	A31	B86	PM_RSMRST#	+VRTC_BATT	A86
B32	SML0_CLK	DDIB_TX3N	A32	B87	UART_TX1	SUS_CLK	A87
B33	SML0_DATA	DDIB_TX3P	A33	B88	UART_RX1	DIO_0	A88
B34	GPP_F11_USB_PD_ALERT_3P3_N	GND	A34	B89	UART1_RTS_N	DIO_1	A89
B35	GPP_H7_I2C3_SCL_3P3	EDP_AUXN	A35	B90	UART1_CTS_N	DIO_2	A90
B36	GPP_H6_I2C3_SDA_3P3	EDP_AUXP	A36	B91	Floating	DIO_3	A91
B37	GPP_E4_USB_RT_ENA_3P3	GND	A37	B92	Floating	DIO_4	A92
B38	USB3_LSRX	EDP_TX0N	A38	B93	GPP_E13_GPSPI0_MOSI_3P3	DIO_5	A93
B39	USB3_LSTX	EDP_TX0P	A39	B94	GPP_E12_GPSPI0_MISO_3P3	DIO_6	A94
B40	USB2_LSRX	GND	A40	B95	GPP_E10_GPSPI0_CS0_3P3_N	DIO_7	A95
B41	USB2_LSTX	EDP_TX1N	A41	B96	Floating	DIO_8	A96
B42	GND	EDP_TX1P	A42	B97	Floating	DIO_9	A97
B43	USB2_AUXN	GND	A43	B98	Floating	DIO_10	A98
B44	USB2_AUXP	EDP_TX2N	A44	B99	GPP_E11_GPSPI0_CLK_3P3	DIO_11	A99
B45	LID#	EDP_TX2P	A45	B100	GPP_E17_GPSPI0_INT_3P3_N	GND	A100
B46	SLEEP#	GND	A46				
B47	+V1P8A_SPI	EDP_TX3N	A47				
B48	SPI_CS_CARRIER_N	EDP_TX3P	A48				
B49	BSEL0	GND	A49				
B50	BSEL1	ESPI_IO0	A50				
B51	BSEL2	ESPI_IO1	A51				
B52	ESPI_ALERT0_N	ESPI_IO2	A52				
B53	ESPI_ALERT1_N	ESPI_IO3	A53				
B54	ESPI_CARRIER_CS_N	ESPI_CLK	A54				
B55	ESPI_CS2_N	GND	A55				

COM-HPC Row CD Connector (bottom side)

D1	VCC	VCC	C1	D56	SATA1_RXP	COM_EXP0_CLK_N	C56
D2	VCC	CB_SYSRST#	C2	D57	GND	COM_EXP0_CLK_P	C57
D3	VCC	VCC	C3	D58	SATA1_TXN	GND	C58
D4	VCC	THRM#	C4	D59	SATA1_TXP	COM_EXP7_CLK_N	C59
D5	VCC	VCC	C5	D60	GND	COM_EXP7_CLK_P	C60
D6	VCC	CB_PWROK	C6	D61	PCIE_5_TXN	GND	C61
D7	VCC	VCC	C7	D62	PCIE_5_TXP	PCIE_5_RXN	C62
D8	VCC	SLP_S4#	C8	D63	GND	PCIE_5_RXP	C63
D9	VCC	VCC	C9	D64	PCIE_6_TXN	GND	C64
D10	PCH_WAKE#	GND	C10	D65	PCIE_6_TXP	PCIE_6_RXN	C65
D11	EC_WAKE_IN#	FAN_PWMOUT	C11	D66	GND	PCIE_6_RXP	C66
D12	GND	FAN_TACHIN	C12	D67	PCIE_7_TXN	GND	C67
D13	USB1_DN	GND	C13	D68	PCIE_7_TXP	PCIE_7_RXN	C68
D14	USB1_DP	USB3_DN	C14	D69	GND	PCIE_7_RXP	C69
D15	GND	USB3_DP	C15	D70	PCIE_8_TXN	GND	C70
D16	USB0_DN	GND	C16	D71	PCIE_8_TXP	PCIE_8_RXN	C71
D17	USB0_DP	USB2_DN	C17	D72	GND	PCIE_8_RXP	C72
D18	GND	USB2_DP	C18	D73	PCIE_9_TXN	GND	C73
D19	TCP0_SDA_AUXN	GND	C19	D74	PCIE_9_TXP	PCIE_9_RXN	C74
D20	TCP0_SCL_AUXP	DMIC_CLK1	C20	D75	GND	PCIE_9_RXP	C75
D21	GND	DMIC_DAT1	C21	D76	PCIE_10_TXN	GND	C76
D22	TCP0_TX0N	GND	C22	D77	PCIE_10_TXP	PCIE_10_RXN	C77
D23	TCP0_TX0P	SNDW_CLK0	C23	D78	GND	PCIE_10_RXP	C78
D24	GND	SNDW_DAT0	C24	D79	PCIE_11_TXN	GND	C79
D25	TCP0_TX1N	GND	C25	D80	PCIE_11_TXP	PCIE_11_RXN	C80
D26	TCP0_TX1P	TCP0_DDC_AUX_SEL	C26	D81	GND	PCIE_11_RXP	C81
D27	GND	DDIB_DDC_AUX_SEL	C27	D82	PCIE_12_TXN	GND	C82
D28	TCP0_TX2N	TCP0_HPD	C28	D83	PCIE_12_TXP	PCIE_12_RXN	C83
D29	TCP0_TX2P	DDIB_HPD	C29	D84	GND	PCIE_12_RXP	C84
D30	GND	EDP_HPD	C30	D85	LAN1_MDI0N	GND	C85
D31	TCP0_TX3N	EDP_VDD_EN	C31	D86	LAN1_MDI0P	SMB_CLK_RESUME	C86
D32	TCP0_TX3P	EDP_BKLT_EN	C32	D87	GND	SMB_DATA_RESUME	C87
D33	GND	EDP_BKLTCTL	C33	D88	LAN1_MDI1N	SMB_ALERT_N	C88
D34	AC_PRESENT_SOC	GND	C34	D89	LAN1_MDI1P	UART_TX0	C89
D35	Floating	USB3_AUXN	C35	D90	GND	UART_RX0	C90
D36	GND	USB3_AUXP	C36	D91	LAN1_MDI2N	UART0_RTS_N	C91
D37	USB3_SSTX0N	GND	C37	D92	LAN1_MDI2P	UART0_CTS_N	C92
D38	USB3_SSTX0P	USB3_SSRX0N	C38	D93	GND	GPP_H20_I2C0_SCL_3P3	C93
D39	GND	USB3_SSRX0P	C39	D94	LAN1_MDI3N	GPP_H19_I2C0_SDA_3P3	C94
D40	USB3_SSTX1N	GND	C40	D95	LAN1_MDI3P	GPP_B8_I2C0_ALERT_3P3_N	C95
D41	USB3_SSTX1P	USB3_SSRX1N	C41	D96	GND	GPP_D23_BPKI3C_SCL	C96
D42	GND	USB3_SSRX1P	C42	D97	LAN1_LED_2500#	GPP_D22_BPKI3C_SDA	C97
D43	USB2_SSTX0N	GND	C43	D98	LAN1_LED_1000#	LAN1_PHY_SDP0	C98
D44	USB2_SSTX0P	USB2_SSRX0N	C44	D99	LAN1_LED_LNK#_ACT	LAN1_LED_LNK#_ACT	C99
D45	GND	USB2_SSRX0P	C45	D100	GND	GND	C100
D46	USB2_SSTX1N	GND	C46				
D47	USB2_SSTX1P	USB2_SSRX1N	C47				
D48	GND	USB2_SSRX1P	C48				
D49	SATA0_RXN	GND	C49				
D50	SATA0_RXP	BOOT_SPI_IO0	C50				
D51	GND	BOOT_SPI_IO1	C51				
D52	SATA0_TXN	BOOT_SPI_IO2	C52				
D53	SATA0_TXP	BOOT_SPI_IO3	C53				
D54	GND	BOOT_SPI_CLK	C54				
D55	SATA1_RXN	GND	C55				

COM-HPC Row EF Connector (bottom side)

F1	Floating	Floating	E1	F56	Floating	GND	E56
F2	Floating	GND	E2	F57	Floating	Floating	E57
F3	Floating	TCP1_DATA_AUXN	E3	F58	GND	Floating	E58
F4	Floating	TCP1_CLK_AUXP	E4	F59	Floating	GND	E59
F5	Floating	GND	E5	F60	Floating	Floating	E60
F6	Floating	TCP1_TX0N	E6	F61	GND	Floating	E61
F7	Floating	TCP1_TX0P	E7	F62	Floating	GND	E62
F8	Floating	GND	E8	F63	Floating	Floating	E63
F9	Floating	TCP1_TX1N	E9	F64	GND	Floating	E64
F10	Floating	TCP1_TX1P	E10	F65	Floating	GND	E65
F11	Floating	GND	E11	F66	Floating	Floating	E66
F12	Floating	TCP1_TX2N	E12	F67	GND	Floating	E67
F13	Floating	TCP1_TX2P	E13	F68	Floating	GND	E68
F14	Floating	GND	E14	F69	Floating	Floating	E69
F15	Floating	TCP1_TX3N	E15	F70	GND	Floating	E70
F16	Floating	TCP1_TX3P	E16	F71	LAN2_MDI0N	Floating	E71
F17	Floating	GND	E17	F72	LAN2_MDI0P	Floating	E72
F18	Floating	TCP1_DDC_AUX_SEL	E18	F73	GND	Floating	E73
F19	GND	TCP1_HPD	E19	F74	LAN2_MDI1N	Floating	E74
F20	PCIE_21_RXN	GND	E20	F75	LAN2_MDI1P	Floating	E75
F21	PCIE_21_RXP	PCI+D126:D173E_21_TXN	E21	F76	GND	Floating	E76
F22	GND	PCIE_21_TXP	E22	F77	LAN2_MDI2N	Floating	E77
F23	PCIE_22_RXN	GND	E23	F78	LAN2_MDI2P	+VOP95_LAN2	E78
F24	PCIE_22_RXP	PCIE_22_TXN	E24	F79	GND	LAN2_PHY_SDP0	E79
F25	GND	PCIE_22_TXP	E25	F80	LAN2_MDI3N	LAN2_LED_1000#	E80
F26	PCIE_23_RXN	GND	E26	F81	LAN2_MDI3P	LAN2_LED_LNK#_ACT	E81
F27	PCIE_23_RXP	PCIE_23_TXN	E27	F82	GND	LAN2_LED_2500#	E82
F28	GND	PCIE_23_TXP	E28	F83	Floating	GND	E83
F29	PCIE_24_RXN	GND	E29	F84	Floating	Floating	E84
F30	PCIE_24_RXP	PCIE_24_TXN	E30	F85	GND	Floating	E85
F31	GND	PCIE_24_TXP	E31	F86	Floating	GND	E86
F32	PCIE_25_RXN	GND	E32	F87	Floating	Floating	E87
F33	PCIE_25_RXP	PCIE_25_TXN	E33	F88	GND	Floating	E88
F34	GND	PCIE_25_TXP	E34	F89	Floating	GND	E89
F35	PCIE_26_RXN	GND	E35	F90	Floating	Floating	E90
F36	PCIE_26_RXP	PCIE_26_TXN	E36	F91	GND	Floating	E91
F37	GND	PCIE_26_TXP	E37	F92	COM_EXP3_CLK_N	GND	E92
F38	PCIE_27_RXN	GND	E38	F93	COM_EXP3_CLK_P	COM_EXP6_CLK_N	E93
F39	PCIE_27_RXP	PCIE_27_TXN	E39	F94	GND	COM_EXP6_CLK_P	E94
F40	GND	PCIE_27_TXP	E40	F95	Floating	GND	E95
F41	PCIE_28_RXN	GND	E41	F96	Floating	SRCCLKREQ6_N	E96
F42	PCIE_28_RXP	PCIE_28_TXN	E42	F97	Floating	SRCCLKREQ3_N	E97
F43	GND	PCIE_28_TXP	E43	F98	Floating	Floating	E98
F44	PCIE_1_RXN	GND	E44	F99	Floating	Floating	E99
F45	PCIE_1_RXP	PCIE_1_TXN	E45	F100	Floating	Floating	E100
F46	GND	PCIE_1_TXP	E46				
F47	PCIE_2_RXN	GND	E47				
F48	PCIE_2_RXP	PCIE_2_TXN	E48				
F49	GND	PCIE_2_TXP	E49				
F50	PCIE_3_RXN_R	GND	E50				
F51	PCIE_3_RXP_R	PCIE_3_TXN_R	E51				
F52	GND	PCIE_3_TXP_R	E52				
F53	PCIE_4_RXN_R	GND	E53				
F54	PCIE_4_RXP_R	PCIE_4_TXN_R	E54				
F55	GND	PCIE_4_TXP_R	E55				

COM-HPC Row GH Connector (bottom side)

H1	GND	Floating	G1	H56	Floating	GND	G56
H2	USB32_1_TXN	GND	G2	H57	Floating	Floating	G57
H3	USB32_1_TXP	USB32_1_RXN	G3	H58	GND	Floating	G58
H4	GND	USB32_1_RXP	G4	H59	Floating	GND	G59
H5	Floating	GND	G5	H60	Floating	Floating	G60
H6	Floating	Floating	G6	H61	GND	Floating	G61
H7	GND	Floating	G7	H62	Floating	GND	G62
H8	USB32_2_TXN	GND	G8	H63	Floating	Floating	G63
H9	USB32_2_TXP	USB32_2_RXN	G9	H64	GND	Floating	G64
H10	GND	USB32_2_RXP	G10	H65	Floating	GND	G65
H11	Floating	GND	G11	H66	Floating	Floating	G66
H12	Floating	Floating	G12	H67	GND	Floating	G67
H13	GND	Floating	G13	H68	CSI1_CLK2_DN	GND	G68
H14	Floating	GND	G14	H69	CSI1_CLK2_DP	CSI0_CLK2_DN	G69
H15	Floating	Floating	G15	H70	GND	CSI0_CLK2_DP	G70
H16	GND	Floating	G16	H71	CSI1_RX0N	GND	G71
H17	Floating	Floating	G17	H72	CSI1_RX0P	CSI0_RX0N	G72
H18	Floating	Floating	G18	H73	GND	CSI0_RX0P	G73
H19	GND	PEG_LANE_REV_N	G19	H74	CSI1_RX1N	GND	G74
H20	Floating	GND	G20	H75	CSI1_RX1P	CSI0_RX1N	G75
H21	Floating	Floating	G21	H76	GND	CSI0_RX1P	G76
H22	GND	Floating	G22	H77	CSI1_RX2N	GND	G77
H23	Floating	GND	G23	H78	CSI1_RX2P	CSI0_RX2N	G78
H24	Floating	Floating	G24	H79	GND	CSI0_RX2P	G79
H25	GND	Floating	G25	H80	CSI1_RX3N	GND	G80
H26	Floating	GND	G26	H81	CSI1_RX3P	CSI0_RX3N	G81
H27	Floating	Floating	G27	H82	GND	CSI0_RX3P	G82
H28	GND	Floating	G28	H83	CSI1_CLK_DN	GND	G83
H29	Floating	GND	G29	H84	CSI1_CLK_DP	CSI0_CLK_DN	G84
H30	Floating	Floating	G30	H85	GND	CSI0_CLK_DP	G85
H31	GND	Floating	G31	H86	GPP_H22_I2C1_SCL_I3C1_SCL	GND	G86
H32	Floating	GND	G32	H87	GPP_H21_I2C1_SDA_I3C1_SDA	GPP_D23_BPKI3C_SCL	G87
H33	Floating	Floating	G33	H88	CSI1_MCLK	GPP_D22_BPKI3C_SDA	G88
H34	GND	Floating	G34	H89	GPP_H0_CSI1_RST_N	CSI0_MCLK	G89
H35	Floating	GND	G35	H90	GPP_B0_CSI1_ENA	GPP_V23_CSI0_RST_N	G90
H36	Floating	Floating	G36	H91	GND	GPP_C8_CSI0_ENA	G91
H37	GND	Floating	G37	H92	Floating	GND	G92
H38	Floating	GND	G38	H93	Floating	Floating	G93
H39	Floating	Floating	G39	H94	GND	Floating	G94
H40	GND	Floating	G40	H95	Floating	GND	G95
H41	Floating	GND	G41	H96	Floating	Floating	G96
H42	Floating	Floating	G42	H97	GND	Floating	G97
H43	GND	Floating	G43	H98	Floating	Floating	G98
H44	Floating	GND	G44	H99	Floating	Floating	G99
H45	Floating	Floating	G45	H100	Floating	Floating	G100
H46	GND	Floating	G46				
H47	Floating	GND	G47				
H48	Floating	Floating	G48				
H49	GND	Floating	G49				
H50	Floating	GND	G50				
H51	Floating	Floating	G51				
H52	GND	Floating	G52				
H53	Floating	GND	G53				
H54	Floating	Floating	G54				
H55	GND	Floating	G55				

Block Diagram

