SolidRun Hummingboard Edge Carrierboard BOM

HBCE001 REV 1.2.0

PriorityPN	Item	Quantity	AssemblyOption	Part	Description	Manufacturer	Manufacturer P	PCB Footprint	Reference
CO00500	57	1	HDMI	HDMI Connector	HDMI Connector	GENESIS	HDAR-6U19-BKHCR-3F	ABA-HDM-051	J11
CO00002	56	1	RJ45	GigaBit Ethernet	RJ45 Connector	BTOP	B50(15-02)G8-09-A022-B12	B50	J10
CA20013	4,10,18	11	ANALOG_AUDIO,,USB_4PORTS	0.1UF	CAP CER 0.1UF 16V 10% X7R 0402	SAMSUNG	CL05B104K05NNNC	402	C1,C2,C3,C6,C14,C53,C12,C40,C27,C28,C29
CO00511	72	1		DH40C-70DS-0.4V(51)	Board-to-Board header 70 pins, 0.4mm pitch	HIROSE	DF40C-70DS-0.4V(51)	DF40HC-70DS	J5001
CO00100	3	1	SIM_CARD_HOLDER	CON 6 SIM CARD	CON 6 SIM CARD SMT 100MIL SP 91H AU	JAE	SF7W006S1AE1000	SJ035774	CON2
CO00516	50	1	ANALOG_AUDIO	STX-3000		PINREX	STX-3000 pink (audio jack)	STX-3000	J3
CO00515	49	1	ANALOG_AUDIO	STX-3000		PINREX	STX-3000 green (audio jack)	STX-3000	J1
CA20015	11,36	3	,ADC	560pF	CAP CER 560PF 50V 10% X7R 0402	SAMSUNG	CL05B561KB5NNNC	402	C13,C44,C93
CA20092	12	2		3.3nF	CAP CER 3.3nF 16V 10% X5R 0402	SAMSUNG	CL05B332KB5NNNC	402	C18,C42
CO00040	53	1	LVDS	LVDS CONN	DF19G Hirose LVDS Connector	HIROSE	DF19G-30P-1H(54)	DF19G-30P-1H	J6
CA20090	9	4	PCIE	0.1UF	CAP CER 0.1UF 16V 10% X7R 0402	CAPAX	0402X104K250SNT	402	C11,C15,C16,C17
CA20091	19	2	USB_4PORTS	8pF	CAP CER 8PF 50V 1% C0G 0402	MURATA	GRM1555C1H8R0BA01D	402	C35,C38
IC00131	125	2	USB_4PORTS	MIC2026-1YM	IC LIN SW PWR ACTIVE HIGH DUAL 2.7V-5.5V 0.5A SOIC8	DIODES	AP2162ASG-13	SOIC-8	U9,U22
CO00049	58	2	ADC	HEADER 2		CVILUX	CH31022V200-NH		J12,J29
CO00090	121	2	USB_4PORTS	2xUSB	2xUSB	CZT	USB-A2D16F-2B8N	DUAL_USB	U5,U2023
CO00509	64	1	UART	HEADER 3		CVILUX	CH31032V200-NH	Header_3x1	J25
IC00005	126	3	HDMI	ESD7004MUTAG_NL	HDMI ESD protection	ON-SEMI	ESD7004MUTAG	XSON10U	U10,U12,U14
RN00002	84	3		4x4.7K	4.7K Resistor Network 4x0402 5%	CTS ELECTR	741C083472JP	YC124	RN3000,RN3001,RN3002
IC00160	122	1	PCIE	TS9011ACX	LDO - 1.5V output, 0.25A, 12V maximum inout	TSC	TS9011SCX	SOT-23-3	U6
BT00001	1	1	RTC	SCR1620VE01S		JL WORLDWI	SCR1620VE01S	N/A	BT1
IC00042	123	1	USB_4PORTS	CY7C65632		CYPRESS	CY7C65632-28LTXC	28_pin_qfn	U7
IC00040	128	1	RTC	PCF8523		NXP	PCF8523T/1,118	SO8	U16
CO00091	129	1	MicroSD	Micro SD push-push	SD/MMC card connector	KLS	L-KLS1-TF-003	ZM90	U19
IC00001	118	1	INFRARED	IRM-3638M3-X	IR Receiver - 38KHz	EVERLIGHT	IRM-3638M3	IRM-36	U2
DI00002	45	1	HDMI	RB521CS-30	Schottky Diodes & Rectifiers SURF. MOUNT	ROHM	RB521CS-30T2R	VMN-2	D5
DI00003	42	1		LTST-S320KRKT		AVAGO TECH	HSMH-C680	N/A	D1
IC00566	132	2		RT2875A/B		RICHTEK	RT2875BQGCP	TSSOP-14	U23,U24
CA60001	21	1		1nF	CHIP CAP 1nF 2KV 1610	MURATA	GRM31BR73A102KW01L	1210	C45
CO00098	117	1		DTSM-3		DIPTRONICS	DTSM-31N-V-B	DTSM-3	U1
IN00047	78	1		6.8uH	Power inductor 6.8uH Isat=10A	VIKING	SDB0650M6R8	SDB0630	L10
CO00521	71	1	MIPI_CSI_DSI_4CH	MIPI CSI and DSI	CON 33 SHRD SKT RA SMT 0.5mm SP AU	PINREX	979-43-9-3380A	Pinrex 979 Horizontal	J604
IN00001	77	2		900hm	Filter Bead 90ohms 25%	VIKING	CB05YTYH900	805	L8,L9
RE20105	108	2		100K	RES MF 100K 1/16W 0402	YAGEO	RC0402JR-07100KL	402	R40,R41
IN00003	48	1	USB_4PORTS	BLM18PG121SN1D	Bead 120ohm, 100MHz, 2A	MURATA	BLM18PG121SN1D	L-0603	FB1
RE20203	92	1	USB_4PORTS	649,9	CHIP RES 649 1% 1/16W 0402	YAGEO	RC0402FR-07649RL	402	R12
CO00018	52	1	PCIE	CON 2X6 MINI PCI EXPRESS	CON 2X6 MINI PCI EXPRESS SMT 0.8MM SP 1136H	LOTES	AAA-PCI-046-K01	AAA-PCI-046	J5
RE20011	90	2	PCIE	49,9	RES MF 49.9 OHM 1/16W 1% 0402	YAGEO	RC0402FR-0749R9L	402	R9,R10
CO00508	63	2	GPIO	HEADER 6X2		CVILUX	CH81122V200	Header_6x2	J23,J24
DI00008	43	1	ACT		Indication LED 0603 - Green	BRIGHTEK	1SA0603G32A0CB01	1SA0603	D2
RE20155	107	2		50K	RES MF 50K 1/16W 1% 0402	YAGEO	RC0402FR-0750K9L	402	R39,R44
CO00017	54	2		DF40C-80DS-0.4V(51)	Board-to-Board 80 pins, 0.4mm pitch	HIROSE	DF40C-80DS-0.4V(51)	DF40HC-80DS	J7,J9
CA20005	5,8,14,23,27,28,35	11	MicroSD,INFRARED,USB_4PORTS	1uF	CHIP CAP 33nF 6.3V 0402 X5R	SAMSUNG	CL05A105KP5NNNC	402	C4,C10,C20,C30,C47,C51,C54,C55,C91,C92,C103
RE20152	93.106	4	ADC,	110K	RES MF 110K 1/16W 1% 0402	YAGEO	RC0402FR-07110KL	402	R13,R37,R42,R45
CA60004	20	4		10uF-C1210	CHIP CAP 1210 10uF 50V 20% X5R	SAMSUNG	CL32B106KBJNNWE	C1210	C43,C63,C64,C65
CO00019	73	1		HEADER 4x2/SM	Two row 100-mil through hole header	CVILUX	CH81082V200	M20	J5005
CA20001	25	3	eMMC	100nF	CAP CER 0402 100nF 10V 10% X7R	SAMSUNG	CL05B104KP5NNNC	C0402	C49,C52,C57
CA20800	22,32	2	M.2_SSD,RTC	4.7uF	CAP CER 4.7 6.3V 10% X5R 0402	MURATA	GRM155R60J475ME87D	402	C46,C80
CA20002	29	2	M.2_SSD	10nF_25V	CHIP CAP 10nF 25V 0402 X7R	CAPAX	0402X103K250SNT	C-0402	C58,C59,C60,C61
IC00937	127	1	ADC	ads7924		TI	ADS7924IRTER	qfn-16	U13
RE20030	97.101.112	3	,RTC,ADC	1.6K	RES MF 1.6K 1/16W 1% 0402	YAGEO	RC0402FR-071K6L	402	R23,R28,R50
IC00220	131	1	MicroSD	Dual SPDT	Dual analog switch	TI	TS3A5223RSWR	R-PUQFN-N10	U21
OC00009	138	1	USB_4PORTS	12MHz	XTAL 12MHZ SMT	YOKETAN	S3225A012000-F10CCCA	S3225	Y1
IC00666	82	1	MicroSD	TSM2323	20V P-Channel MOSFET	TSC	TSM2323CX RF	SOT23	Q1
CA20014	24	3		470pF	CAP CER 470PF 50V 10% X7R 0402	MURATA	GRM155R71H471KA01D	402	C48,C69,C74
CO00507	62	2	GPIO	HEADER 3X2		CVILUX	CH81062V200	Header_3x2	J21,J22
OC00001	81	1	RTC	32.768KHZ	XTAL 32.768KHZ 12.5PF 20PPM 3.2X1.5MM SMT	NDK	NX3215SA32.768K-STD-MUA-4	NX3215	QZ1
CO00053	2	1		KLDHCX-0202-A-LT	Power Jack	KYCON	KLDHCX-0202-A-LT	KLDHCX-0202-A-LT	CON1
RN00007	83	1		4x300 Ohm	Resistor Network 4.7K Ohm 5% 4 x 0402 SMT	BOURNS	CAY10-331J4LF	YC124	RN203
RE20204	85,96,98,99	6	ANALOG_AUDIO,UART,MicroSD,	2.2k	CHIP RES 2.2K 1/16W 0402	YAGEO	RC0402FR-072K2L	402	R1,R18,R24,R33,R34,R25
RE20007	89	1	INFRARED	240	CHIP RES 240 1% 1/16W 0402	YAGEO	RC0402JR-07240RL	402	R8
MCH0007	61,67	2	,MECH	MECH_2.4_3.6		A-LINK	N0143416	MECH_2.4_3.6	J18,J19
MCH0009		4				WURTH	977-406-024-3R		J30,J31,J32,J33
MCH0006	60	2	PCIE	MECH_3.8_5		A-LINK	S0305025A	MECH_3.8_5	J15,J16
RE20156	109	1		25.5K	RES MF 25.5K 1/16W 1% 0402	YAGEO	RC0402FR-0725K5L	402	R43
RE20013	95.102.103.104	6	HDMI,USB_4PORTS,RJ45,	10.0K	RES MF 10.0K 1/16W 1% 0402	YAGEO	RC0402FR-0710KL	402	R15,R29,R30,R31,R46,R11
RE50001	47	1		SMBJ24CA	TVS Diodes - Transient Voltage Suppressors 5.0V 600W 5% Uni	YAGEO	RC1206JR-070RL	DO-214AA	D8
MCH0008	68	1	M.2_SSD	MECH_3.5_4.2		WURTH	977-401-515-1R	MECH_3.5_4.2	J34
IC00132	120	1	ANALOG_AUDIO	SGTL5000_32QFN	AUDIO CODEC	FREESCALE	SGTL5000XNAA3R2	QFN 32	U4
CO00514	134	1	M.2_SSD	NGFF M.2		FOXCONN	AS0BC21-S30BM-7H	NGFF	J2027
IC00300	119	1	UART	Dual Buffer - NLX2G16		ON-SEMI	NLX2G16AMX1TCG	ULLGA6-CASE613AE	U3
RE20009	100.110	2	,eMMC	0	RES MF 0 Ohm 1/16W 1% 0402	YAGEO	RC0402JR-070RL	402	R27,R48
IN00051	79	1		4.7uH	Power inductor 4.7uH Isat=10A	VIKING	SDB0630MT2R2	SDB0630	L11
IC00309	135	1	eMMC	eMMC_153		SAMSUNG	KLM4G1FEAC-B031	eMMC_153	U10001
IC00014	130	1		TS9011DCX	LDO - 1.8V output, 0.25A, 12V maximum inout	MICROCHIP	MCP1700T-1802E/TT	SOT-23-3	U20
RE20100	94.105	3	ADC,	15K	RES MF 15K 1/16W 1% 0402	YAGEO	RC0402FR-0715KL	402	R14,R36,R38
IN00010	76	4	LVDS	900HM	IND CHK 90 OHM@100MHZ 330MA 25% 0805	MURATA	DLW21H900SQ2L	DLW21H	L2,L3,L4,L5
CA30001	15,16,30,31,33	7	PCIE,,MIPI_CSI_DSI_4CH,LVDS,M	10uF	CAP CER 10UF 6.3V 10% X5R 0603	SAMSUNG	CL10A106KA8NNNC	603	C21,C25,C22,C66,C62,C67,C85
CA30002	6,7,26	16	USB_4PORTS,,GPIO	22uF	CAP CER 22UF 6.3V 20% X5R 0603	SAMSUNG	CL10A226MQ8NRNE	603	C5,C7,C37,C39,C41,C81,C86,C87,C88,C89,C8,C9,C23,C24,C50,C56
PS00015	PCB	1				PRINT-E	#NV		