

Section	From Ref	From Pin	Connector	Mating Connector	Crimp	To Ref	To Pin	Connector	Mating Connector	Crimp	Wire ID	Gauge	Length (mm)	Insulation	Color	From Label
Safety Switch	J50	1	1839211	1704857	No	Pushbutton	Terminal 1	Wire	N/A	No		20	TBD	Silicon	red	IO_VDD_3V3
	J50	2	1839211	1704857	No	Pushbutton	Terminal 2	Wire	N/A	No		20	TBD	Silicon	red	IO_SAFETY_SWITCH_IN
	J50	3	1839211	1704857	No	Pushbutton	LED+	Wire	N/A	No		20	TBD	Silicon	white	N_IO_LED_SAFETY
	J50	4	1839211	1704857	No	Pushbutton	LED-	Wire	N/A	No		20	TBD	Silicon	black	GND
Ethernet	J35	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2	PPP2ETH	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	20	Silicon	default	VDD_5V_TEL2
	J35	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2	PPP2ETH	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	20	Silicon	default	CAN2_L
	J35	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2	PPP2ETH	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	20	Silicon	default	CAN2_H
	J35	4	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2	PPP2ETH	4	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	20	Silicon	default	GND
	J36	1	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2	PPP2ETH	1	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2		26	20	Silicon	default	ETH_RX0+
	J36	2	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2	PPP2ETH	2	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2		26	20	Silicon	default	ETH_RX0-
	J36	3	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2	PPP2ETH	3	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2		26	20	Silicon	default	GND
	J36	4	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2	PPP2ETH	4	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2		26	20	Silicon	default	ETH_TX0+
	J36	5	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2	PPP2ETH	5	SM05B-GHS-TB(LF)(SN)	GHR-05V-S	SSHL-002T-P0.2		26	20	Silicon	default	ETH_TX0-
	J41	1	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2	PPP2ETH	1	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2		26	25	Silicon	default	VDD_5V_TEL2
	J41	2	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2	PPP2ETH	2	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2		26	25	Silicon	default	UART5_RX_TEL2
	J41	3	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2	PPP2ETH	3	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2		26	25	Silicon	default	UART5_TX_TEL2
	J41	4	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2	PPP2ETH	4	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2		26	25	Silicon	default	UART5_CTS_TEL2
	J41	5	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2	PPP2ETH	5	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2		26	25	Silicon	default	UART5_RTS_TEL2
	J41	6	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2	PPP2ETH	6	SM06B-GHS-TB(LF)(SN)	GHR-06V-S	SSHL-002T-P0.2		26	25	Silicon	default	GND
GNSS	J9	1	1839211	1704857	No	M9N	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	35	Silicon	default	GND
	J9	2	1839211	1704857	No	M9N	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	35	Silicon	default	CAN1_L
	J9	3	1839211	1704857	No	M9N	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	35	Silicon	default	CAN1_H
	J9	4	1839211	1704857	No	M9N	4	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	35	Silicon	default	5V
Neo F9P & Spare	J7	1	1814935	1704857	No	F9P	4	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	GND
	J7	2	1814935	1704857	No	F9P	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	CAN1_L
	J7	3	1814935	1704857	No	F9P	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	CAN1_H
	J7	4	1814935	1704857	No	F9P	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	VDD_5V_CAN1
	J8	1	1814935	1704857	No	F9P	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	GND
	J8	2	1814935	1704857	No	F9P	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	CAN2_L
	J8	3	1814935	1704857	No	F9P	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	CAN2_H
	J8	4	1814935	1704857	No	F9P	4	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	130	Silicon	default	VDD_5V_CAN2
RPI Ethernet	J2	1	1814935	1704857	No	SIYI A8	6	SM09B-GHS-TB(LF)(SN)	GHR-09V-S	SSHL-002T-P0.2		26	500	Silicon	white	ETH_RX1+
	J2	2	1814935	1704857	No	SIYI A8	7	SM09B-GHS-TB(LF)(SN)	GHR-09V-S	SSHL-002T-P0.2		26	500	Silicon	orange	ETH_RX1-
	J2	3	1814935	1704857	No	SIYI A8	4	SM09B-GHS-TB(LF)(SN)	GHR-09V-S	SSHL-002T-P0.2		26	500	Silicon	grey	ETH_TX1+
	J2	4	1814935	1704857	No	SIYI A8	5	SM09B-GHS-TB(LF)(SN)	GHR-09V-S	SSHL-002T-P0.2		26	500	Silicon	green	ETH_TX1-
SIYI A8 w/o HM30	J12	1	1839211	1704857	No	SIYI A8 - Video	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	white	UART8_TX_GPS2
	J12	2	1839211	1704857	No	SIYI A8 - Video	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	grey	UART8_RX_GPS2
	J12	3	1839211	1704857	No	SIYI A8 - Video	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	black	GND
	J12	4	1839211	1704857	No	SIYI A8 - Video	X	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	X	X
	J13	1	1839211	1704857	No	SIYI A8 - Power	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	red	12V
	J13	2	1839211	1704857	No	SIYI A8 - Power	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	red	12V
	J13	3	1839211	1704857	No	SIYI A8 - Power	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	500	Silicon	black	GND
HM30	J14	1	XT30PW-F	XT30-M	No	HM30 - Power	1	Wire	N/A	N/A		16	170	Silicon	red	12V
	J14	2	XT30PW-F	XT30-M	No	HM30 - Power	2	Wire	N/A	N/A		16	170	Silicon	black	GND
	J15	1	1814935	1704857	No	HM30 - UART	1	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	170	Silicon	white	UART7_TX_TEL1
	J15	2	1814935	1704857	No	HM30 - UART	2	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	170	Silicon	grey	UART7_RX_TEL1
	J15	3	1814935	1704857	No	HM30 - UART	3	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	170	Silicon	black	GND
	J15	4	1814935	1704857	No	HM30 - UART	4	SM04B-GHS-TB(LF)(SN)	GHR-04V-S	SSHL-002T-P0.2		26	170	Silicon	X	X
	J17	1	1814922	1704854	No	HM30-SBUS	1	SM03B-GHS-TB(LF)(SN)	GHR-03V-S	SSHL-002T-P0.2		26	170	Silicon	blue	IO_PPM_INPUT_AND_SBUS_INPUT
	J17	2	1814922	1704854	No	HM30-SBUS	2	SM03B-GHS-TB(LF)(SN)	GHR-03V-S	SSHL-002T-P0.2		26	170	Silicon	black	GND
Benewake Lidar w/ spare	J17	3	1814922	1704854	No	HM30-SBUS	3	SM03B-GHS-TB(LF)(SN)	GHR-03V							