

Backplane Pin	RP2350B/Backplane Signal	Computer Board	LASS System Board	Power Supply Board	Medium Power Relay Board	Low Power Relay Board	Description
J1-20	GPIO0	CB_UART0_TX					Spare/Debug serial port - sent to an Xcvr and connector
J1-22	GPIO1	CB_UART0_RX					Spare/Debug serial port - sent to an Xcvr and connector
J1-24	GPIO2	CB_I2C_SDA					i2c bus from Computer board to any add-on board
J1-26	GPIO3	CB_I2C_SCL					i2c bus from Computer board to any add-on board
J1-28	GPIO4	CB_UART1_TX	CB_UART1_TX				Used for inter-processor comms between Computer & LASS Boards
J1-30	GPIO5	CB_UART1_RX	CB_UART1_RX				Used for inter-processor comms between Computer & LASS Boards
J1-32	GPIO6	CB_RTC_CS					SPI1 *CS for Real Time Clock (RTC) on Computer Board
J1-34	GPIO7	LCAM_RELAY_CTRL				LCAM_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-36	GPIO8	RCAM_RELAY_CTRL				RCAM_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-38	GPIO9	ROT1_RELAY_CTRL				ROT1_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-40	GPIO10	ROT2_RELAY_CTRL				ROT2_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-42	GPIO11	CTD_RELAY_CTRL				CTD_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-44	GPIO12	PARO_RELAY_CTRL				PARO_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-46	GPIO13	KEAR_RELAY_CTRL				KEAR_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-48	GPIO14	VN100_RELAY_CTRL				VN100_RELAY_CTRL	3.3V level GPIO used for relay activation on Low Power Relay Board
J1-50	GPIO15	STROBE1_RELAY_CTRL			STROBE1_RELAY_CTRL		3.3V level GPIO used for relay activation on Medium Power Relay Board
	GPIO16	SPIO_MISO					Reserved SPI bus for W5500 Ethernet Controller on Computer Board
	GPIO17	SPIO_CSn					Reserved SPI bus for W5500 Ethernet Controller on Computer Board
	GPIO18	SPIO_SCLK					Reserved SPI bus for W5500 Ethernet Controller on Computer Board
	GPIO19	SPIO_MOSI					Reserved SPI bus for W5500 Ethernet Controller on Computer Board
	GPIO20	RSTn					Reserved SPI bus for W5500 Ethernet Controller on Computer Board
	GPIO21	INTn					Reserved SPI bus for W5500 Ethernet Controller on Computer Board
J1-52	GPIO22	STROBE2_RELAY_CTRL			STROBE2_RELAY_CTRL		3.3V level GPIO used for relay activation on Medium Power Relay Board
J1-54	GPIO23	RESON_RELAY_CTRL			RESON_RELAY_CTRL		3.3V level GPIO used for relay activation on Medium Power Relay Board
J1-56	GPIO24	NORBIT_RELAY_CTRL			NORBIT_RELAY_CTRL		3.3V level GPIO used for relay activation on Medium Power Relay Board
J1-58	GPIO25	LIDAR_RELAY_CTRL	LIDAR_RELAY_CTRL				Coil activation (24V) for chassis mount power relay for LIDAR
J1-60	GPIO26	CB_SPI1_SCK		CB_SPI1_SCK			SPI bus from Computer board to any add-on board
J1-62	GPIO27	CB_SPI1_MOSI		CB_SPI1_MOSI			SPI bus from Computer board to any add-on board
J1-64	GPIO28	CB_SPI1_MISO		CB_SPI1_MISO			SPI bus from Computer board to any add-on board
J2-15	GPIO29	CB_ENVR_CS					SPI1 *CS signal for Environmental sensor on Computer Board
J2-17	GPIO30	CB_EEPROM_CS					SPI1 *CS signal for EEPROM/MAC Address chip on Computer Board
J2-19	GPIO31	CB_H2O_DET					Water Intrusion Detector Signal. L: Ok, H: H2O Present
J2-21	GPIO32	CB_HEARTBEAT					Heartbeat LED on Computer board
J2-23	GPIO33	PB_ADC_MON1_CS		PB_ADC_MON1_CS			SPI1 *CS for octal ADC on Power Supply Board
J2-25	GPIO34	PB_ADC_MON2_CS		PB_ADC_MON2_CS			SPI1 *CS for quad ADC on Power Supply Board
J2-27	GPIO35	CB_SD_DET					3.3V level GPIO for detection of an SD Card (H: No Card, L: Card Inserted)
J2-29	GPIO36	CB_SD_CS					SPI1 *CS for SD Card Access
J2-31	GPIO37	[open]					Available GPIO pin
J2-33	GPIO38	[open]					Available GPIO pin
J2-35	GPIO39	[open]					Available GPIO pin
J2-16	GPIO40/ADC0	[open]					Available GPIO/ADC pin
J2-18	GPIO41_ADC1	[open]					Available GPIO/ADC pin
J2-20	GPIO42_ADC2	[open]					Available GPIO/ADC pin
J2-22	GPIO43_ADC3	[open]					Available GPIO/ADC pin
J2-24	GPIO44_ADC4	[open]					Available GPIO/ADC pin
J2-26	GPIO45_ADC5	[open]					Available GPIO/ADC pin
J2-28	GPIO46_ADC6	[open]					Available GPIO/ADC pin
J2-30	GPIO47_ADC7	[open]					Available GPIO/ADC pin
J2-37		CB_USB_DET		CB_USB_DET			USB detection signal from Computer board; turns off 3.3V on Power Supply Board
J2-39			LB_USB_DET	LB_USB_DET			USB detection signal from LASS board; turns off 3.3V on Power Supply Board
J2-41	Unassigned_1						Spare backplane line which is not attached to a processor
J2-43	Unassigned_2						Spare backplane line which is not attached to a processor
J2-32	Unassigned_3						Spare backplane line which is not attached to a processor
J2-34	Unassigned_4						Spare backplane line which is not attached to a processor
J2-36	Unassigned_5						Spare backplane line which is not attached to a processor
J2-38	Unassigned_6						Spare backplane line which is not attached to a processor
J2-40	Unassigned_7						Spare backplane line which is not attached to a processor
J2-42	Unassigned_8						Spare backplane line which is not attached to a processor
J2-44	Unassigned_9						Spare backplane line which is not attached to a processor