Category	Subcategory		Site	Part #	Comment (if any)	# Needed	# to Buy	Date PR submitted		Status
Interlock chassis		3.3 V power supply	Digi-key	CUI Inc PYB10-Q24-S3-DIN	Power supply for I2C communication		. 2	2021-08-03	405110P	At S&R (2021-08-09
		3.3 V decoupling capacitors	Digi-key	United Chemi-Con - KTD500B106M55A0T00	10-uF decoupling capacitors recommended by 3.3 V power supply manufacturer	1 2	3	2021-08-03	405110P	At S&R (2021-08-09
		24 V power supply	Digi-key	Mean Well - GST120A24-R7B	Power supply for sbRIO		. 1	2021-08-03	405110P	At S&R (2021-08-09
	l	Power feedthough	Digi-key	Kycon - KPJX-PM-4S-S	Chassis connection for 24 V power	1 1	. 2	2021-08-03	405110P	At S&R (2021-08-09
	Power supplies		Digi-key	Qualtek - 312127-01	Cable from outlet to power supply brick	-	1	2021-08-03	405110P	At S&R (2021-08-09
	and distribution	24V distribution blocks	Digi-key	Phoenix Contact - 3046786 (red)	Two-level power distribution terminals inside chassis	1 6	10	2021-08-03	405110P	At S&R (2021-08-0
	distribution	3.3 V distribution blocks Distribution block endplates	Digi-key	Phoenix Contact - 3035467 (yellow) Phoenix Contact - 3047316	Two-level power distribution terminals inside chassis	-	10	2021-08-03	405110P 405110P	At S&R (2021-08-09
		Distribution block end clamps	Digi-key	Phoenix Contact - 304/316 Phoenix Contact - 0800886	End plates/partitions for terminal blocks	+	0	2021-08-03	405110P	At S&R (2021-08-0
		Distribution block end clamps Distribution block jumpers (4 pins)	Digi-key Digi-key	Phoenix Contact - 0800886 Phoenix Contact - 3030255	Helps clamp terminal blocks onto the DIN rail Jumpers for tying together distribution blocks	+ :	10	2021-08-03	405110P	At S&R (2021-08-09
		Distribution block Jumpers (4 pins)	Digi-key Digi-key	Phoenix Contact - 3050233 Phoenix Contact - 1051016:0001	1 - 10 labels for terminal blocks		10	2021-08-03		At S&R (2021-08-09
		chassis	Digi-key	TBD	Base chassis cost from manufacturer		10	2021-00-03	4031101	At 30th (2021-00-03
		chassis fabrication		TBD	Cost to machine chassis for interlock system		1			
		chassis rackmount slides		TBD	Rails to slide chassis in and out of rack for easier mainentance	1	1			
		18 mm standoffs	McMaster	McMaster - 94868A724	standoffs between sbRIO and chassis, F-F		4			
	Chassis hardware	16 mm standoffs	McMaster	McMaster - 92080A012	standoffs between sbRIO and heat spreader, F-F		10			
		30 mm standoffs	McMaster	McMaster - 94868A729	standoffs for between RMC and bottom of chassis, F-F	10	15			
		7/16-inch standoffs	McMaster	McMaster - 91115A512	standoffs for backplane PCB 7/16"					
		M3 screws - chassis bottom	McMaster	McMaster - 91698A302	Screws for fastening standoffs to chassis, pack of 50	1 2	. 2			
		M3 screws - PCBs	McMaster	McMaster - 92000A116	Screws for fastening PCBs to standoffs, pack of 100	1 :	. 1			
		M2.5 screws	McMaster	McMaster - 90485A431	Screws to attach power feedthrough to chassis, pack of 100		1			
		#4-40 screws	McMaster	McMaster - 96640A056	fastening feedthroughs to chassis and general use, pack of 100		1			
		#4-40 nuts	McMaster	McMaster - 90591A250	fastening feedthroughs to chassis and general use, pack of 100	1	1			
		Ethernet feedthrough	Digi-key	Switchcraft Inc EHRJ45D6ASB440	RJ45 disconnects feedthrough for network connection		. 2	2021-08-03	405110P	At S&R (2021-08-09
		Gas sensors feedthrough	Newark	L-com - USBAFT	4-pin USB-A panel mount connector - terminal block	4	10			
		Expansion Chassis USB connection	Digi-key	Switchcraft Inc EHUSBBABX	USB-A to USB-A feedthrough for locally connecting to expansion chassis		. 2	2021-08-03		At S&R (2021-08-09
	External	3.3 V LED (green)	Digi-key	APEM Inc Q8F7BXXG02E	status LEDs for chassis 3.3 V power supply	1	. 4	2021-08-03	405110P	At S&R (2021-08-09
	connections	Override LED (red)	Digi-key	APEM Inc Q8F7BXXR02E	Status LED for chassis 24 V power supply	1	. 2	2021-08-03	405110P	At S&R (2021-08-09
	and indicators	,	Digi-key	APEM Inc Q8F3BXXG24E	Status LED for local readback of chassis interlock override status	1	. 2	2021-08-03	405110P	BACKORDERED
		BNC feedthroughs	Digi-key	Amphenol RF - 031-10-RFXG1	Ports for connecting interlock cable to chassis	1	. 2	2021-08-03	405110P	At S&R (2021-08-09
		BNC connectors				1	. 2			
	Other	LEMO connectors	Digi-key	LEMO 00-series - FFA.00.250.NTAC29	Connectors for interlock cable	-	2	2021-08-03	405110P	At S&R (2021-08-09
		USB flash drive	CDW	CDW - SanDisk Cruzer Fit - USB flash drive - 32 GB	USB drive for sbRIO configuration files	12	_	2021-08-03		At S&R (2021-08-06 At S&R (2021-08-09
		RMC-to-backplane connector RMC-to-backplane cables	Digi-key	Amphenol ICC - 71600-034LF 3M - 3365/34 300SF	connects RMC to backplane PCB 34 conductor ribbon cable - 10 ft	1,	18	2021-08-03	405110P 405110P	At S&R (2021-08-09 At S&R (2021-08-09
		Thermal paste	Digi-key Digi-key	Parker Chomerics - 65-00-GEL45-0010	For between sbRIO heat spreader and chassis for better thermal contact.	+ :	1 2	2021-08-03	405110P	At S&R (2021-08-09
		DIN rail	Digi-key Digi-key	Phoenix Contact - 0801733 (~6.5ft)	For mouting items inside chassis and in rack	+ :	1	2021-08-03	405110P	At S&R (2021-08-09
		Rack mount screws	Digi-key Digi-key	Hammond Manufacturing - SCREW1032-100 (100 pack)	For mounting chassis in rack	+ - :	1	2021-08-03	405110P	At S&R (2021-08-09
		Cable mounts	Digi-key Digi-key	Panduit Corp - ABM1M-A-M	adhesive pads for cable organization	100	100	2021-08-03	405110P	At S&R (2021-08-09
		Cable ties	Digi-key	Belden Inc DT-04-18-9-C	cable ties for affixing cables to mount points	100		2021-08-03	405110P	At S&R (2021-08-09
		connectors	Digi key	TBD	casic des for arriving casics to mount points	7	100	2021 00 05	4031101	710 SQ11 (2022 00 03
		cables		TBD		?				
RMC	-	fabrication		TBD	Fabrication of PCB, 3 week time		. 5			
		parts		TBD	Parts for PCB	1	. 5			
		assembly		TBD	Final population of PCB, 7 day time	1	. 5			
Backplane PCB	-	fabrication		TBD	Fabrication of PCB	1	. 2			
		parts		TBD	Parts for PCB	1	. 2			
		assembly		TBD	Final population of PCB	1	. 2			
SHT35 PCBs		fabrication	Advanced Circuits		Fabrication of PCB, 3 weeks	24				
	-	parts	Advanced Circuits		Parts for PCB	24				
		assembly	Advanced Circuits	n/a	Final population of PCB, 7 days	24	50			
		interior I2C cabling	Amazon	Amazon - BUSOHE flat Cat 7 Ethernet Cable 100 FT	Flat CAT7 cables for use inside detector	15				
		Molex mating connector		Molex - 5013300800	Mating connector for Pico-clasp connector on SHT35 PCBs	24		2021-07-26		At S&R (2021-07-30
		Molex pins		Molex - 5013340100	Pins for Pico-clasp mating connector	192	1000	2021-07-26	404854P	At S&R (2021-07-30
		exterior I2C cabling	DUCI-	85-700-120 GY (ShowMeCables) - 1000 ft	Bulk cabling for I2C signals outside of detector		3	2024 00 40	405300	DD
Cables/connectors	-	N2 vol feedthroughs	RHSeals	RHSeals 6-port feedthrough Switchcraft Inc EHRJ45D6ASB440	hermetic feedthroughs to pass I2C cables into N2 volume		_	2021-08-10	405380	PR submitted
		Patch panel connector	Digi-key	SWITCHCLAIT INC EHKJ45D6ASB440	RJ45 disconnects for external patch panel at detector	50	18	2021-08-03	405110P	At S&R (2021-08-09
		RJ45 connectors		TE Connectivity AMD Connectors F 74700F 2	RJ45 connectors for I2C cabling Female DB9 connectors		150			
		Gas sensors connectors, F		TE Connectivity AMP Connectors - 5-747905-2		15				
		Gas sensors - Dsub backshell Gas sensors connectors, USB	Digi kov	TE Connectivity AMP Connectors - 1991253-9	Backshells for gas system sensors DB9 connectors Latching USB-A 2.0 connector with backshell	10				
		I Gas sensors connectors, USB	Digi-key	TE Connectivity - 2040305-1	Laterling USB-A Z.U connector with dacksnell	1 10	ij 15			
		UPS	CDW	CDW - APC Smart-UPS 2200VA (SMT2200RM2UC)	Uninterrupted Power Supply sized for interlock system		1	2021-08-03	405111D	At S&R (2021-08-06
	1 -						1			
UPS	_	UPS monitoring relays	lcpw	CDW - APC Dry Contact I/O SmartSlot Card UPS (AP9613)	UPS add on module for external monitoring with sbRIO		1 1	2021-08-03	J05111D	At S&R (2021-08-06

Cell Shading Color Code
Discussion needed
Price and/or parts to be determined
PR submitted
Item received, inventoried, and stored
Use of part not finalized