GReX ENCLOSURE BOM JULY 5 2022											
ITEM	**PN**	**BRAND**	**DESCRIPTION**	**VENDOR**	**VENDOR PN/SKU**	**QUANTITY/BOX**	**OUR STOCK**		**PRICE**	**Price per Part**	**Price per Box**
Enclosure	418N4ALC6	Hammond	Aluminum wallmount enclosure	Hawk	1418N4ALC6	1	8		$ 664.00	$ 664.00	$ 664.00
Interface Plate	8975K83		1/8"x3"x12" 6061 Aluminum	McMaster-Carr	8975K83	1	8		$ 5.20	$ 5.20	$ 5.20
Conductive Gasket	5831T22		EMI/RFI shielding silicone rubber strip	McMaster-Carr	5831T22	1	2		$ 65.37	$ 21.79	$ 21.79
Screws w/gaskets	90825A182	Zago	8-32 3/8" sealing pan head screws (10)	McMaster-Carr	90825A182	8	80		$ 7.16	$ 0.72	$ 5.73
ERMC-S Nipple	64363	Home Depot	1" X 6" "ERMC-S" nipple	Home Depot	64363//051411643638	1	8		$ 4.15	$ 4.15	$ 4.15
Locking Nut	96193		1" rigid conduit lock nut	Home Depot	96193//051411961930	2	8		$ 0.93	$ 0.47	$ 0.93
Junction Box	5320-0	Bell Outdoor	Single-gang junction box	Home Depot	5320-0//050169532003	1	8		$ 8.56	$ 8.56	$ 8.56
Cover Plate	5189-0	Bell Outdoor	J-box cover plate	Home Depot	5189-0//050169518908	1	8		$ 11.82	$ 11.82	$ 11.82
Power Cord	1001 363 690	HDX	8' indoor/outdoor power cord	Home Depot	1001 363 690//8997004661455	1	8		$ 8.98	$ 8.98	$ 8.98
Cord Fitting	pn 27693	Halex	1/2" watertight cord strain relief	Home Depot	27693//051411276935	1	8		$ 2.36	$ 2.36	$ 2.36
SMA Feedthrough	N/A	Boobrie	SMA panel feedthrough	Amazon		3	18		$ 13.99	$ 1.40	$ 4.20
Feedthrough	1202-054	API	500V/25A/3000pF feedthrough	Mouser	657-1202F-054		25				$ -
Square Tube	1001 773 584	EverBuilt	1"x36" punched square tube	Home Depot	1001 773 584//887480030372	1	2		$ 29.27	$ 29.27	$ 29.27
Saddle Clamp	DXE-CAVS-3P	DX Engineering	3" V-Saddle	Summit Racing	DXE-CAVS-3P	2	16		$ 20.49	$ 20.49	$ 40.98
Bolt	AMD		5/16" X 2.5" Galvanized hex bolt	Home Depot	BKC	4	20		$ 12.82	$ 0.85	$ 3.42
Nut	ABC		5/16" Galvanized nut 25 ct bag	Home Depot	AHE//887480022346	4	25		$ 6.76	$ 0.27	$ 1.08
Flat Washer	ABB		5/16" Galvanized flat washer 25 ct bag	Home Depot	ACA//887480022742	4	25		$ 6.93	$ 0.28	$ 1.11
Lock Washer	0000-590-832		5/16" Zinc split ring washer	Home Depot	0000-590-832	not used	0				
Enclosure Plate	89015K229		0.09"x"18"x18" 6061 Aluminum	McMaster-Carr	89015K229	1	8		$ 51.62	$ 51.62	$ 51.62
Screw			#8 x 9/16" hex bolt for feed mount			4					$ -
Nut			#8 nylon lock nut for feed mount	McMaster-Carr	91831A009	4			$ 6.90	$ 0.07	$ 0.28
Silicone Sealant	RTV108	Momentive	Silicone adhesive	McMaster-Carr	7545A471				$ 11.37		$ -
SNAP Board						1	15				$ -
Raspberry Pi Board						1	9				$ -
Synthesizer Module	5009A	Valon Technology	Dual freq. synthesizer	Valon	5009A	1	8		$ 699.00	$ 699.00	$ 699.00
Shila RX Module		Custom	FEM	in-house		1	0				$ -
Power Supply	LRS-50-12	Mean Well	12 V DC 3 A 50 W power supply	Digi-Key	1866-3352-ND	1	8		$ 15.36	$ 15.36	$ 15.36
PSU Terminal Cover	TBC-05	Mean Well	Cover for AC and DC terminals (5)	Digi-Key	1866-4906-ND	1	0		$ 0.23	$ 0.23	$ 0.23
DC to DC Converter	Shila	Custom	12 V DC SNAP switch/Voltage converter	in-house		1	9				$ -
GPS Receiver		BG7TBL	GPS module with antenna	on-line		1	0		$ 103.99	$ 103.99	$ 103.99
GB Data Switch	CRS305-1G-4S+IN	MikroTik	1 Gbit to 4x 10 Gbit Data Switch	MikroTik	CRS305-1G-4S+IN	1	8		$ 149.00	$ 149.00	$ 149.00
Amplifier	ZX60-V62+	Mini-Circuits	ZX60-V62+ amplifier	Digi-Key	3157-ZX60-V62+-ND	2			$ 88.48	$ 88.48	$ 176.96
Adapter	SM014-3P	VCELink	SMA M to SMA M adapter	Amazon	B06Y64DS9V	2			$ 5.99	$ 2.00	$ 3.99
Adapter			BNC M to SMA F adapter	Amazon	CMP-CONN-SMAF_BNCM-GLD-4	2	10		$ 13.97	$ 3.49	$ 6.99
											$ -
M3 cap screw			M3 x 6 metric cap screw (LRS-50-12 mount)	our stock		2					$ -
2-56 threaded spacer			3/16" x 1/2" Al 2-56 threaded spacer	McMaster-Carr	91780A107	6	60		$ 0.71	$ 0.71	$ 4.26
4-40 threaded spacer			1/4" x 1/2" Al 4-40 threaded spacer	McMaster-Carr	91780A164	10	54		$ 0.40	$ 0.40	$ 4.00
4-40 threaded spacer			1/4" x 1" Al 4-40 threaded spacer	McMaster-Carr	91780A167		20		$ 0.53	$ 0.53	$ -
											$ -
Wire Connectors			Door ground jumper/9" 16 ga green wire	In-house		9"					
			Ground post ring terminal KS 2-6 16-14, 1/4"			2	14				$ -
Coaxial Cable	086-3SMR+	Mini-Circuits		Mini-Circuits		3	15		$ 22.32	$ 22.32	$ 66.96
Coaxial Cable	086-8SMR+	Mini-Circuits		Mini-Circuits		1			$ 22.32	$ 22.32	$ 22.32
Coaxial Cable	086-12SMRSM+	Mini-Circuits		Mini-Circuits		1			$ 22.81	$ 22.81	$ 22.81
Coaxial Cable	086-15SMRSM+	Mini-Circuits		Mini-Circuits		2			$ 22.81	$ 22.81	$ 45.62
Coaxial Cable	086-24SMRSM+	Mini-Circuits		Mini-Circuits		2	20		$ 25.59	$ 25.59	$ 51.18
DC Cable	type 2468	Runqi	2 conductor 18 AWG red/black ribbon (40")	Runqi		50' spool					
DC twisted pair	173148	Consolidated	2 conductor 24 ga AWG red/white twisted pr	Consolidated		100' spool					
											$ -
Feed Assembly		Custom	DSA 110 feed	In-house		1	0				$ -
LNA		Custom	DSA 110 LNA module	In-house		2	0				$ -
Coaxial Cable LNA	CCB655895	Custom	LMR-240 3 feet SMA M/SMA M rt angle 0 deg.	MPD Digital		2	18				$ -
											$ -
Fan	CFM-8025V-145-43	CUI Devices	80x80x25 mm fan, mag-lev ball bearing type	Digikey	CFM-8025V-145-431-ND	1	2		$ 13.06	$ 13.06	$ 13.06
Mount		Custom	3D printed stand, adjustable height			1					$ -
#8 x 1/2 screw						2					$ -
#8 nylock nut						2					$ -
2/56 x 1/2 screw						2					$ -
2/56 nut						2					$ -
						meters	meters			per meter	
EMI/IP gasket	7300-15-6-A-Type II	Holland Shielding	dual environmental and RFI tight gasket	Holland Shielding	7300-15-6-A-Type II	1.5	3		$ 50.00	$ 50.00	$ 75.00
											Total Cost
											$ 2,326.20