Item	Name On PCB	Value		Manufacturer part Numbe	r DiniKey part number	Quantity per PCB	Cost per 1 pc	Cost for Requir	Product/site info
ANALOG SWITCH	Name on For	Value	Package Size	munulacturer part Humbe	Digitely part number	quantity per r ob	oost per 1 per	oost for require	T TOUGUSTIC HITO
	IC3		SM8	SN74LVC2G53DCT	296-13269-2-ND	1	\$0.67	\$0.67	https://www.digikey.com/product-detail/en/texas-instruments/SN74LVC2G53DCTR/296-13269-1-ND/484508
	C5	1 uE	1206	CC1206KRX7R9BB104	311-1179-1-ND	i i	\$0.19	\$0.19	https://www.digikev.com/product-detail/en/vageo/CC1206KRX7R9BB104/311-1179-1-ND/303089
	CS	1 UF	1206	CC1206KRX7R9BB104	311-1179-1-ND	1	\$0.19	\$0.19	https://www.aigikey.com/product-detail/en/yageo/CC12uokRX7R9BB104/311-T179-1-ND/303089
RADIO									
SAMTEC TLE 14 POS	Freewave Z9-C		TLE	TLE-107-01-G-DV-A	SAM10182-ND	1	\$2.83	\$2.83	https://www.digikey.com/product-detail/en/samtec-inc/TLE-107-01-G-DV-A/SAM10182-ND/6678919
FREEWAVE Z9-C or Z9-T	Freewave Z9-C			Z9-C	2108-Z9-C-ND	1	\$490.44	\$490.44	https://www.digikey.com/products/en?keywords=freewave%20Z9-C
CONNECTIVE HARDWARE									
Female-Female 1/4", 2-56 standoffs						4	\$1.87	\$7.48	https://www.mcmaster.com/91115A806
	For accounting the auties beaut					-			
	For connecting the entire board			-		*	\$2.15	\$8.60	https://www.mcmaster.com/91075A211
2-56 Thread, 3/16" Long Bolt		(Packs of 100 @ \$5.40)				1	\$5.40	\$5.40	https://www.mcmaster.com/91802A076
CONNECTORS/ANTENNA									
900 MHz RF antenna			SMA	A09-HASM-675	A09-HASM-675-ND	1	\$25.00	\$25.00	https://www.digikey.com/product-detail/en/digi-international/A09-HASM-675/A09-HASM-675-ND/615818
MMCX to SMA connector			MMCX	CBA-SMA-MMCXRA	CBA-SMA-MMCXRA-ND	1	\$5.81	\$5.81	https://www.digikey.com/product-detail/en/rf-solutions/CBA-SMA-MMCXRA/CBA-SMA-MMCXRA-ND/2781759
JUMPERS			WINIOA	CEST CHIET HIMICAUCT	OBT CHIEF MINIOR CT TE	<u> </u>	40.01	ψ0.01	Inspection and a second product of the control of t
	Z9-C Radio/Z9-TRadio		2.54 mm	M20-9980345	952-2120-ND			\$1.08	https://www.digikey.com/product-detail/en/harwin-inc/M20-9980345/952-2120-ND/3728084
						4	\$0.27		
	RST_RADIO/EN_VCC2		2.54 mm	QPC02SXGN-RC	S9337-ND		2 \$0.1	0 \$0.20	https://www.digikey.com/product-detail/en/sullins-connector-solutions/QPC02SXGN-RC/S9337-ND/2618262
	Z9-C Radio/Z9-TRadio		2.54 mm	MNT-102-BK-G	SAM9042-ND	3	\$0.76	\$2.28	https://www.digikey.com/product-detail/en/samtec-inc/MNT-102-BK-G/SAM9042-ND/2685308
D CARD									
	SD card					1	\$1.95	\$1.95	https://www.adafruit.com/product/1660
	SD Cald					-	\$1.55	\$1.93	III. D. S. W. W. BURI GILLON PRODUCE TOU
ELAY BLOCK									
elay Driver			SOT26	DRDC3105E6-7	DRDC3105E6-7DICT-ND	1	\$0.46	\$0.46	https://www.digikey.com/product-detail/en/diodes-incorporated/DRDC3105E6-7/DRDC3105E6-7DICT-ND/3028443
A Latching Relay	relays 1 and 2			TQ2SS-L2-3V-Z	255-3845-1-ND	1	\$5.07	\$5.07	https://www.digikey.com/product-detail/en/panasonic-electric-works/TQ2SS-L2-3V-Z/255-3845-1-ND/3885594
OCKBLOCK+ INTERFACE									
ROCKBLOCK+						1	\$250.00	\$250.00	
TERM BLK 7POS SIDE ENT 3.5MM PCB		_	+	4754000	027 0047 ND	1:			A STATE OF THE STA
	1			1751293	277-6247-ND	-	\$4.40	\$4.40	https://www.digikey.com/product-detail/en/phoenix-contact/1751293/277-6247-ND/2511029
VOLTAGE DIVIDER									
VBAT Resistor (0603) 1MOhm		1 M Ohms	\0603	CPF0603B1M0E	A119955DKR-ND	1	\$0.52	\$0.52	https://www.digikey.com/product-detail/en/te-connectivity-passive-product/CPF0603B1M0E/A119955DKR-ND/4966666
Trim pot CT6 2MOhms		2 M Ohms	CT6	CT6EP205	CT6EP205-ND	1	\$0.79	\$0.79	https://www.digikey.com/product-detail/en/nidec-copal-electronics/CT6EP205/CT6EP205-ND/738311
POWER GRID					1				, , , , , , , , , , , , , , , , , , ,
	Dog ware			DOM MOSE			*** 05	*** 05	The first of the second second
Polulu 5V step down	D36V28F5		+	D36V28F5	+	1	\$11.95	\$11.95	https://www.pololu.com/product/3782
Polulu 3.3V step down	(Recommend D36V28F3)			N/A		1	\$11.95	\$11.95	https://www.pololu.com/product/3782
3.5 mm 3-position screw terminal			3.5 mm pitch length	1751251	277-5749-ND	1	\$1.95	\$1.95	https://www.digikey.com/product-detail/en/phoenix-contact/1751251/277-5749-ND/2511152
RS232 INTERFACE TO RADIO									
	MAX3243		SSOP-28	MAX3243CDBR	296-6941-1-ND	1	\$1.91	\$1.91	https://www.digikey.com/product-detail/en/texas-instruments/MAX3243CDBR/296-6941-1-ND/371563
MAY3243						-			
		1					\$0.19	\$0.95	https://www.digikey.com/product-detail/en/yageo/CC1206KRX7R9BB104/311-1179-1-ND/303089
	C1, C2, C3, C4, CBYPASS	1 uF	1206	CC1206KRX7R9BB104	311-1179-1-ND	5			
	C1, C2, C3, C4, CBYPASS	1 uF	1206	CC1206KRX/R98B104	311-11/9-1-ND	5	Total	841.88	
	C1, C2, C3, C4, CBYPASS	1 uF	1206	CC1206RRX/R9BB104	311-11/9-1-ND	5			
	C1, C2, C3, C4, CBYPASS	1 uF	1206	CC1206KRX/R9BB104	311-11/9-1-ND	5			
	C1, C2, C3, C4, CBYPASS	1 uF	1206	CC1206KRX/R9BB104	311-11/9-1-ND	5			
0.1 uF SMD capacitor (1206)	C1, C2, C3, C4, CBYPASS	1 uF	1206	CC1206KRX/R9BB104	311-11/9-1-ND	5			
0.1 uF SMD capacitor (1206) Pin Usage				CC1206KRX/R9BB104	311-1179-1-ND	5			
0.1 uF SMD capacitor (1206) Pin Usage Rover Pins	Function	1 uF	1206 Verified	CC1208KRX/R9BB104	311-11/9-1-ND	5			
0.1 uF SMD capacitor (1206) Pin Usage				CC1208RRX/R98B104	311-11/9-1-ND	5			
0.1 uF SMD capacitor (1206) Pin Usage Rover Pins	Function CHANNEL SELECT ANALOG SWITCH			CC1206RRX/R98B104	311-11/9-1-ND	5			
0.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3	Function			CC1206RRX/RSBB104	311-11/9-1-4-U	5			
21 uF SMD capacitor (1206) Pin Usage Rover Pins A8 A3	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battary voltage reader			CC120exAX/Asses104	311-11/9-1-4U	5			
2.1 uF SMD capacitor (1206) Pin Usage Rower Pins AD A3 A1 A2	Function CHANNEL SELECT ANALOG SWITCH			CC120bKNKX/F88BB104	311-17 <i>9</i> -3-4U	5			
Pin Usage Power Pins AB A3 A1 A2 A4	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK- Ring Alert Battery voltage reader GNSS RELAY RESET			CC120exAx/reses104	331-17/9-3-4U	5			
2.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battary voltage reader			ULT ZODNIKA / PRESETUA	331-17 <i>9</i> -3-4U	5			
Pin Usage NOver Pins A3 A1 A2 A4	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK- Ring Alert Battery voltage reader GNSS RELAY RESET			ULTZORNEX/PRESTOR	311-17/4-1-10	5			
Pin Usage ROver Pins A3 A1 A2 A4	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK- Ring Alert Battery voltage reader GNSS RELAY RESET			CLT ZUBNIKA / PRESE TUB	311-17/4-4-40				
0.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RX(9) TX(1)	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent GASTRIP WARRING GNSS RELAY RESET ROCKBLOCK+ Network Available Radio TX Readio RX			ULT ZUDNIKK / PRESENTUA	311-17/4-4-40	5			
2.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 BX(0) TX (1) 9	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alert Satisty voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Fasio TX Radio RX Rockblock+ ON/OFF			CLTZORNEX/PRESTOR	311-17/4-1-40				
2.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 FX (6) TX (1) 9 13	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Hadio TX Rockblock+ ON/OFF ROX2 To Rockblock+			CUTZOBNIKK/PRESTOR	311-17/4-4-40				
Pin Usage Rover Pins A8 A3 A1 A2 A4 A5 FX (8) TX (1) 9 13	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alert Satisty voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Fasio TX Radio RX Rockblock+ ON/OFF			CLT200NHXX/Pel88104	311-17/4-1-40				
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 AX (8) TX (1) 9 13	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Hadio TX Rockblock+ ON/OFF ROX2 To Rockblock+			ULTZUBNIKK / PRIBE TUR	311-17/41-40				
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RK(0) TX (1) 9 13 12 11	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alert Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available RockBLOCK+ Network Available RockBLOCK+ ONOFF ROCKBLOCK			CLT200NHXX/Pel88104	311-17/4-1-40				
0.1 uF SMD capacitor (1208) Pin Usage Rower Pins A0 A3 A1 A2 A4 A5 IX (9) TX (1) 9 13 12 11 10	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alert GASTERY vibrage marker GNSS RELAY RESET ROCKBLOCK+ Network Available Radio TX Rockblock+ ONIOFF RX21s Rockblock+ GNSS RELAY SET TX2 in Rockblock+ GNSS RELAY SET TX2 in Rockblock+ GNSS RELAY SET			ULTZURNAX/PABB1U4	311-17/41-40				
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RK(0) TX (1) 9 13 12 11	Function OHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET ROCKBLOCK Network Available sales EX sales EX ROSBLOCK NOVEF RX2 to Rodoblock+ GNSS RELAY SET TX2 to Rodoblock+ SO Card CS			CLT200NHXX/Pel88104	311-17/4-1-40				
0.1 uF SMD capacitor (1208) Pin Usage Rower Pins A0 A3 A1 A2 A4 A5 RX (0) TX (1) 13 12 11 10 6 5	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio			CLT208NRX/Pel89104	331-17/4-4-40				
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RX (9) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21)	Function OHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET ROCKBLOCK Network Available sales EX sales EX ROSBLOCK NOVEF RX2 to Rodoblock+ GNSS RELAY SET TX2 to Rodoblock+ SO Card CS			CLT ZOBNIKA / PRESTOR	311-17/4-1-40				
0.1 uF SMD capacitor (1208) Pin Usage Rower Pins A0 A3 A1 A2 A4 A5 RX (0) TX (1) 13 12 11 10 6 5	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio			CLTZORNOX / PRISB TOU	331-17/4-4-40				
2.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RX(e) 7X(f) 9 13 12 11 10 6 5 SCL (GPIO 21)	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio			CLT200NHXX/PHSISTUM	311-17/4-1-40				
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RX (9) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21)	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio			CLTZORNAX / PRISE TOUR	331-17/4-1-40				
2.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RX(0) TX(1) 9 13 12 11 10 6 5 SCL (GPIO 20) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio			ULTZUBNIKK/PREBTUM	311-17/41-40				
In Usage Nover Pins A3 A3 A4 A5 RX(p) TX(1) 9 13 12 11 10 6 5 SCL (GPIO 20) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio		Verified		311-17/41-4-40		Total	841.88	
Vin Usage Vin Usage Vin Usage A0 A3 A1 A2 A4 A5 RX (U) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF ROX 10 Rockblock+ ONS RELAY SET TX 10 Rockblock+ SD Card CS SD card Reset Reset Radio Reset Radio		Verified	2 296-13289-1-ND	337-1776-1-40	7 \$2.0		841.88	
in Usage Vin Usage A0 A3 A1 A2 A4 A5 BX(0) TX(1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alert Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Facility Rockblock+ Rockblock+ ONOFF ROckblock+ ONOFF ROckblock+ ONOFF ROckblock+ GNSS RELAY SET TYZ In Rockblock+ SD Card CS SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable disable the second voltage regulator Disiliery	Block Analog switch	Verified	3 296-13269-1-ND	\$60		Total Total	941.88	
in Usage Vin Usage Vin Usage Vin Usage Vin Usage A0 A3 A1 A2 A4 A5 RX (0) TX (1) 9 13 12 11 10 6 5 SCL (GPIC) 21) SDA (GPIC) 20) Vin SDA (GPIC) 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery violings mader GNSS RELAY RESET ROCKBLOCK+ Network Available Radio TX Rockblock+ ONIOFF ROX2 to Rockblock+ GNSS RELAY SET TX2 to Rockblock+ SSD card CS SD card CS SD card Reset Reset Radio optionally enable/disable the second voltage regulator Dialkey Dialkey	Block Analog switch Aus Capacitor	Verified	3 296-13269-1-ND 311-1179-1-ND	\$00 \$0.0	8 \$1.8	Total 1 For signal rout 1 Passives for St.	841.88 ng on SS base base	
1 uF SMD capacitor (1206) in Usage over Pins A0 A3 A1 A2 A4 A5 BX.(e) TX.(1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) onsolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET SOCKBLOCK Network Available radio TX radio TX Rockblock+ ONOFF RV2 to Rockblock+ GNSS RELAY SET TV2 to Rockblock+ SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable/disable the second voltage regulator Disibary Disibary Disibary Disibary	Analog switch 1.uf: Clapsot connector	Verified	3 296-13269-1-ND 331-1176-1-ND 35M10182-ND	\$00 \$00 \$32	\$ \$1.8 3 \$8.4	Total 1 For signal rout 1 Passives for S: Connector for 1	ng on SS base base	Base
1 uF SMD capacitor (1206) in Usage in Usage A8 A3 A1 A2 A4 A5 BX.(6) TY.(1) S 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) onsolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alert Eatherry violation grader ONSS RELAY RESET ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF Rockblock+ ON/OFF RX2 to Rockblock+ ONSS RELAY SET 702 to Rockblock+ SD Card CS SD Card Reset Reset Radio optionally enable (dsable the second voltage regulator Disikery	Analog switch 1 ruf* Capacitor TILE 14-pos connector 2x3 2.5.4 medadr block	Verified 11	3 296-13269-1-ND 311-1179-1-ND SAM/10182-ND 9952-2120-ND	\$0.0 \$0.0 \$2.2 \$0.0	8 \$1.8 3 \$8.4 7 \$2.7	Total 1 For signal routing Passives for S: Connector for IC Connector for	ag on SS base base reewave radion on Base PCB	Base
1 uF SMD capacitor (1206) in Usage in Usage A8 A3 A1 A2 A4 A5 BX.(6) TY.(1) S 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) onsolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET SOCKBLOCK Network Available radio TX radio TX Rockblock+ ONOFF RV2 to Rockblock+ GNSS RELAY SET TV2 to Rockblock+ SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable/disable the second voltage regulator Disibary Disibary Disibary Disibary	Analog switch 1. LE 14-paotor 1. LE 24-paotor 2.32 2.54 mm header block 2.31 2.54 mm header block	Verified	3 296-13269-1-ND 311-1179-1-ND 35AN10182-ND 982-2120-ND 58337-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5	Total 1 For signal routing Passives for S: Osmector for Signal routing Signal ro	ng on SS base base base no Base PCB n Base PCB	Base
in Usage Cover Pins A0 A3 A1 A2 A4 A5 RX.(0) TX.(1) 9 13 12 11 10 6 8 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alert Eatherry violation grader ONSS RELAY RESET ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF Rockblock+ ON/OFF RX2 to Rockblock+ ONSS RELAY SET 702 to Rockblock+ SD Card CS SD Card Reset Reset Radio optionally enable (dsable the second voltage regulator Disikery	Analog switch 1 ruf* Capacitor TILE 14-pos connector 2x3 2.5.4 medadr block	Verified	3 296-13269-1-ND 311-1179-1-ND SAM/10182-ND 9952-2120-ND	\$0.0 \$0.0 \$2.2 \$0.0	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5	Total 1 For signal routing Passives for S: Connector for IC Connector for	ng on SS base base base no Base PCB n Base PCB	Base
Vin Usage Vin Usage Vin Usage A0 A3 A1 A2 A4 A5 EX.(0) TX.(1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKRLOCK+ Ring Alert Battery violage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Radio TX Rockblock+ ON/OFF Rockblock+ ON/OFF ROX 10 Rockblock+ GNSS RELAY SET TV2 10 Rockblock+ SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable (disable the second voltage regulator Disibley	Analog switch 1uF Capacitor TIE. 14-pos connector Zx1 2.54 mm Shurt Jumper 2x2 2.54 mm Shurt Jumper	Verified	3 296-13269-1-ND 311-1179-1-ND 981-1378-1-ND 982-2120-ND 593373-ND 533373-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0 \$0.0	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5 6 \$7.6	Total I For signal routing Passives for St Connector for Is Signal routing Signal routing Signal routing Signal routing	ng on SS base is base reewave radion on the Base PCB n Base PCB n Base PCB	Base
21 uF SMD capacitor (1206) Pin Usage A0 A3 A1 A2 A4 A5 BX (0) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20)	Function OHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Sattery voltage reader GNSS RELAY RESET ROCKBLOCK- Network Available Reade TX	Analog switch Analog switch 1.uE 34-pos connector boto 2x1 2.54 mm bSnurt Jumper 2x12.05 SID socket 2x1 2x1 SID socket	Verified 11	2 296-13289+ND 3 SAN10182-ND 952-2120-ND 952-2120-ND 958-3937-ND 958-3937-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0 \$5.1	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5 6 \$7.6 5 \$3.9	Total For signal routing Passives for Si Connector for I Signal routing Signal routing Signal routing Signal routing	ag on SS base S base P CB n Base P CB n Base P CB n base P CB	
in Usage Nover Pins A0 A3 A1 A2 A4 A5 RX(p) TX(1) 9 13 12 11 10 6 5 SL (GPIO 21) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Falso TX Rockblock+ ON/OFF RV2 to Rockblock+ GNSS RELAY SET TV2 to Rockblock+ SD card CS Cyclorally enable disable the second voltage regulator Digitals V	Analog switch I.E. Ed-post connector 12.3 2.54 mm Bnutul Jumper 22.2 2.54 mm Shutul Jumper Micro SD socket Relay Dixter	Verified 11	3 296-13269-1-NID 3 311-1179-1-NID 3 311-1179-1-ND 5 9532-7-ND 5 9532-7-ND 5 9532-7-ND 5 95449942-ND 2 166 4 DRDC3105E6-7DICT-ND	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5 6 \$7.6 5 \$3.9	Total For signal rout Passives for S: O Signal routing Signal routing Signal routing For Minor SD o For Minor SD o	ng on SS base base reseave radion on Base PCB n Base PCB n base PC	
in Usage Nover Pins A0 A3 A1 A2 A4 A5 RX(p) TX(1) 9 13 12 11 10 6 5 SL (GPIO 21) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Falso TX Rockblock+ ON/OFF RV2 to Rockblock+ GNSS RELAY SET TV2 to Rockblock+ SD card CS Cyclorally enable disable the second voltage regulator Digitals V	Analog switch Analog switch 1.uE 34-pos connector boto 2x1 2.54 mm bSnurt Jumper 2x12.05 SID socket 2x1 2x1 SID socket	Verified 11	2 296-13289+ND 3 SAN10182-ND 952-2120-ND 952-2120-ND 958-3937-ND 958-3937-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0 \$5.1	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5 6 \$7.6 5 \$3.9	Total For signal routing Passives for Si Connector for I Signal routing Signal routing Signal routing Signal routing	ng on SS base base reseave radion on Base PCB n Base PCB n base PC	
Vin Usage Vin Usage Vin Usage A0 A3 A1 A2 A4 A5 BX (V) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alert GARRY AND ANALOG SWITCH ROCKBLOCK+ Network Available Radio TX ROCKBLOCK+ Network Available Radio TX Rockblock+ ONIOFF RX2 In Rockblock+ GNSS RELAY SET TX2 In Rockblock+ SSD Card CS SD Card CS SD Card CS SD Card CS SD Card CS Digital Reset Radio Digital Reset Digital Reset	Analog switch Analog switch Analog swapech LE 14-pos non header block 2x1 2.24 mm Shurt Jumper 2x12.54 mm Shurt Jumper 2x12.54 mm Shurt Jumper Did coll storing relay Did block of the shurt Jumper Did coll storing relay	Verified 11	3 266-13269-1-ND 3 311-1179-1-ND 3 5AM10182-ND 952-2120-ND 5 SAM9042-ND 2 166 4 DRDC3105E6-7DICT-ND 2 255-3845-1-ND	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5 6 \$7.6 5 \$3.9 6 \$1.8 7 \$10.1	Total For signal routing Passives for S Connector for I Signal routing Signal routing Signal routing For Mirro SO For Mirring pox	go n SS base S base reewave radion on Base PCB n Base PCB n Base PCB n Base PCB refer on Base PCB n	DB
2.1 uF SMD capacitor (1206) Pin Usage Rower Pins A0 A3 A1 A2 A4 A5 RX.(p) TX.(1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20)	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alert Battery voltage reader GNSS RELAY RESET ROCKBLOCK+ Network Available Facilis DR. Rockblock+ ONOFF ROLING AVAILABLE GNSS RELAY SET TYZ 16 Rockblock+ GNSS RELAY SET TYZ 16 Rockblock+ SD Card CS SD Card CS SD Card CS SD Card CS Coptionally enable disable the second voltage regulator Disible V	Analog switch 1.1E 14-post cornector 2.1 2.54 mm Shurt Jumper Micro SD socket Rels you collected to the state of the state	Verified 11	3 296-13269-1-ND 3311-1179-1-ND 3311-1179-1-ND 952-2120-ND 580337-ND 58049042-ND 2 166 4 DRDC3105E6-7DICT-ND 255-3845-1-ND	\$00 \$0.0 \$2.2 \$0.0 \$1.1 \$0.0 \$1.1 \$0.0 \$3.4	8 \$1.8 3 \$8.4 7 \$2.7 0 \$0.5 6 \$7.6 5 \$3.9 6 \$1.8 7 \$10.1	Total 1 For signal routh Passives for Si Signal routing Signal routing Signal routing Signal routing Signal routing For Minor SD Power switchin Connector for ICOnnector ICO	ng on SS base base sibase sibase sibase pCB n Base PCB n Base PCB n base PCB pon base PCB go n base PCB	DB
2.1 uF SMD capacitor (1206) Pin Usage Rower Pins A0 A3 A1 A2 A4 A5 RX (6) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent ROCKELOCK+ RINGER ROCKELOCK+ RINGER Rockelock+ CHANNEL Rockelock+ CHANNEL CHANNEL SELECT TO La Rockelock+ SD Card CS SD Card CS SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable (daable the second voltage regulator Digitality D	Analog switch Analog switch 1.12 (2-spacior T.E. 12-5 on Connector T	Verified 11	3 296-13269-1-ND 311-1179-1-ND 311-1179-1-ND 35AM10182-ND 9952-2120-ND 5 99337-ND 9 5AM19042-ND 2 127-2427-ND 2 277-2427-ND 5 A1199650KR-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0 \$1.5 \$0.0 \$5.5 \$4.4 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$ \$1.8 \$1.8 \$2.7 \$2.7 \$2.7 \$1.0 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8	Total 1 For signal routing Passives for S: Connector for Io Signal routing Io Signal routing Io For Micro SD of Forwer switching Power switching Connector for Io Connector for Io Connector for Io Connector for Io	ag on SS base base reewave radion on make PCB in Base PCB in Base PCB in Base PCB or base PCB or the PCB or base PCB bas	DB
2.1 uF SMD capacitor (1206) Pin Usage A0 A3 A1 A2 A4 A5 RX(e) TX.(1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET SOCKBLOCK+ Network Available sace 1X, sace 1X, sace 1X Control of the Control of the Control GNSS RELAY RESET ROCKBLOCK+ ONOFF RV2 to Rockblock+ ONOFF RV2 to Rockblock+ ONOFF RV2 to Rockblock+ ONOFF RV2 to Rockblock+ SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable/disable the second voltage regulator Disable V	Analog switch 1.1E (14-post cornector 2.1 2.54 mm Shard Jumper Micro SD socked Relay Driver Dulico ol tacth imprired 10 603 resistor variable potentiometer variable potentiometer	Verified 11	3 296-13269-1-ND 3311-1179-1-ND 3311-1179-1-ND 952-2120-ND 5 59337-ND 9 5 59337-ND 9 5 50337-ND 9 5 50337-ND 9 5 50337-ND 9 5 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	500 500 500 500 500 500 500 500 500 500	\$ \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.	Total I For signal routh Passives for Si Signal routing Signal routing Signal routing Signal routing For Micro SD 4 For driving pov Power switchin Passives for S Power manager Passives for S Power manager Power manager	ng on SS base base base base PCB n Base PCB n Base PCB n Base PCB to Base PCB n Base PCB base er relay on Base PCB base base PCB base BcB base PCB base BcB base PCB base BcB base BcB base PCB base BcB	DB
In Usage Viru Usage Viru Usage Viru Usage A0 A3 A1 A2 A4 A5 BX.(0) TX.(1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent CHANNEL SELECT ANALOG SWITCH ROCKELOCK+ Ring Alent ROCKELOCK+ RINGER ROCKELOCK+ RINGER Rockelock+ CHANNEL Rockelock+ CHANNEL CHANNEL SELECT TO La Rockelock+ SD Card CS SD Card CS SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable (daable the second voltage regulator Digitality D	Analog switch 1 nuf Capacitor TLE 14-56 mm Shurt Jumper 22 2.54 mm Shurt Jumper 22 2.54 mm Shurt Jumper Micro SD socket Relay Direct Dual coll tatching relay 7-pos screw terminal 106.0603 resistor variable potentiometer 3-pos screw terminal	Verified 11	3 296-13289-1-ND 311-1179-1-ND 311-1179-1-ND SAM10182-ND 9962-2120-ND 5 59337-ND 9 5840902-ND 2 255-3845-1-ND 2 777-6247-ND 3 CTEF205-ND 3 CTEF205-ND 3 CTEF205-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0 \$1.5 \$0.0 \$5.5 \$4.4 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$ \$1.8 \$1.8 \$2.4 \$1.8 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7	For signal routing Passives for Si Connector for I For different Passives for Si Connector for I Signal routing Signal routing Signal routing Signal routing Por Micro Sto Qualification of Power switching Connector for I Passives for Si Power manage Power Po	ag on SS base base base base base base base base	DB Base PCB
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 BX (8) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKRLOCK+ Ring Alert Battery violates reader GNSS RELAY RESET ROCKBLOCK+ Network Available Fladio TX Rockblock+ ON/OFF ROX 10 Rockblock+ GNSS RELAY SET TV2 10 Rockblock+ SD Card CS SD Card Reset Reset Radio optionally enable (disable the second voltage regulator Disablery Di	Analog switch 1.1E (14-post cornector 2.1 2.54 mm Shard Jumper Micro SD socked Relay Driver Dulico ol tacth imprired 10 603 resistor variable potentiometer variable potentiometer	Verified 11	3 296-13269-1-ND 3311-1179-1-ND 3311-1179-1-ND 952-2120-ND 5 59337-ND 9 5 59337-ND 9 5 50337-ND 9 5 50337-ND 9 5 50337-ND 9 5 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	500 500 500 500 500 500 500 500 500 500	\$ \$1.8 \$1.8 \$2.4 \$1.8 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7 \$2.7	For signal routing Passives for Si Connector for I For different Passives for Si Connector for I Signal routing Signal routing Signal routing Signal routing Por Micro Sto Qualification of Power switching Connector for I Passives for Si Power manage Power Po	ag on SS base base base base base base base base	DB
0.1 uF SMD capacitor (1206) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 RX (9) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKBLOCK+ Ring Alent Battery voltage reader GNSS RELAY RESET SOCKBLOCK+ Network Available radio TX radio TX Rockblock+ ONOFF RV2 to Rockblock+ GNSS RELAY SET TV2 to Rockblock+ SD Card CS SD Card CS SD Card CS SD Card Reset Reset Radio optionally enable/disable the second voltage regulator Disabery	Analog switch 1.1.E (14-post cornector 2.1.E (14-post cornector 2.1.E (24-post cornector 2.1.E (24-post orn Shurt Jumper Micro Star orn Shurt Jumper New York Star orn Shurt Jumper New York Star orn Shurt Jumper Jumper Star orn	Verified 11	3 296-13269-1-ND 3311-1179-1-ND 3311-1179-1-ND 952-2120-ND 59337-ND 9 58401912-ND 9 58401912-ND 9 58409042-ND 2 256-3845-1-ND 2 277-6247-ND 3 CTEEP205-ND 2 277-5749-ND 3 277-5749-ND 3 276-5749-ND	\$00 \$00 \$22 \$00 \$1.5 \$60 \$54 \$60 \$60 \$1.5 \$1.5 \$1.5 \$1.5 \$1.5 \$1.5 \$1.5 \$1.5	8 \$1.8 \$1.8 \$3 \$8.4 \$1.8 \$3 \$8.4 \$1.8 \$3 \$8.4 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8 \$1.8	Total I For signal routing passives for Signal routing passives for Signal routing Signal routing Signal routing Signal routing Signal routing A For driving power for Signal routing Power manage R8232 Interface Signal R	ng on SS base base base base n Base PCB n Ba	DB Base PCB
0.1 uF SMD capacitor (1208) Pin Usage Rover Pins A0 A3 A1 A2 A4 A5 IX (9) TX (1) 9 13 12 11 10 6 5 SCL (GPIO 21) SDA (GPIO 20) Consolidated BOM	Function CHANNEL SELECT ANALOG SWITCH ROCKRLOCK+ Ring Alert Battery violates reader GNSS RELAY RESET ROCKBLOCK+ Network Available Fladio TX Rockblock+ ON/OFF ROX 10 Rockblock+ GNSS RELAY SET TV2 10 Rockblock+ SD Card CS SD Card Reset Reset Radio optionally enable (disable the second voltage regulator Disablery Di	Analog switch 1 nuf Capacitor TLE 14-56 mm Shurt Jumper 22 2.54 mm Shurt Jumper 22 2.54 mm Shurt Jumper Micro SD socket Relay Direct Dual coll tatching relay 7-pos screw terminal 106.0603 resistor variable potentiometer 3-pos screw terminal	Verified 11	3 296-13289-1-ND 311-1179-1-ND 311-1179-1-ND SAM10182-ND 9962-2120-ND 5 59337-ND 9 5840902-ND 2 255-3845-1-ND 2 777-6247-ND 3 CTEF205-ND 3 CTEF205-ND 3 CTEF205-ND	\$0.0 \$0.0 \$2.2 \$0.0 \$0.0 \$1.5 \$4.0 \$0.0 \$1.5 \$0.0 \$1.5 \$1.5 \$1.5 \$1.5 \$1.5 \$1.5	8 \$1.8 \$8.4 \$1.8 \$8.4 \$7 \$2.7 \$2.7 \$0.0 \$0.5 \$7.6 \$5 \$3.9 \$1.8 \$7 \$10.1 \$8.8 \$1.8 \$2.4 \$5 \$3.9 \$5.7 \$11.9 \$5.7 \$11.9 \$1.9 \$1.9 \$5.7 \$11.9 \$1.9 \$1.9 \$1.9 \$1.9 \$1.9 \$1.9 \$1.	For signal routh Passives for Signal routing Signal routing Signal routing For Micro SD of For driving power Power manage RS232 interfac Power manage RS232 interfac RS232 interfac RS232 interfac RS232 interfac	ag on SS base base base base base base base base	DB Base PCB