

TinkerAccess Enclosure

Qty	Description	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Enclosure, Metal						Enclosure that came with magnetic door lock kit
1	Backpanel, Custom	TinkerMill					Backplate to mount all component in enclosure
1	Wall Transformer, 120VAC Plugin, 16.5VAC 40VA Output	MG Electronics	MGT1640P				Came with magnetic door lock kit
1	Motion Detector	Bosch	DS161				Came with magnetic door lock kit
1	Magnetic Door Lock	Rosslare Security	LK-M06L				Came with magnetic door lock kit
1	Push to Exit Button	Alarm Controls	TS-2				Came with magnetic door lock kit
1	Power Supply / Charger	Altronix	AL624				Came with magnetic door lock kit
1	Raspberry Pi Zero W with Headers	Raspberry Pi Foundation	Pi Zero WH	SparkFun	DEV-15470	\$14.00	
1	Memory Card, microSD, 16GB, Class 10	SanDisk	SDSQUAR-016G-GN6MA	Amazon	SDSQUAR-016G-GN6MA	\$6.19	
1	Connector, U.FL, SMD	Hirose Electric	U.FL-R-SMT-1(10)	DigiKey	H11891CT-ND	\$1.22	Solder to Pi Zero W for external antenna
1	Raspberry Pi Compute Module 4 Antenna Kit	Raspberry Pi Foundation	YH2400-5800-SMA-108	Adafruit	4793	\$5.00	
1	TinkerAccess Hat, v1.4	TinkerMill					
1	TinkerAccess RFID Adapter, v1.0	TinkerMill					
1	TinkerAccess RGB LED Driver, v1.0	TinkerMill					
1	LCD, 16x2 Basic, Black on Green, 3.3V	SparkFun	LCD-09053	SparkFun	LCD-09053	\$16.95	
1	LCD I2C Backpack	HiLetgo	03-01-1980	Amazon	03-01-1980	\$5.95	
1	Adapter, Qwiic	SparkFun	DEV-14495	SparkFun	DEV-14495	\$1.50	Needs to be soldered to LCD I2C and power pins
1	Cable, Qwiic, 200mm	SparkFun	PRT-14428	SparkFun	PRT-14428	\$1.50	
1	Latching Push Button, 19mm, 1-NO/NC, 12VDC Blue LED	Mxuteuk	L-19-POWER-T-BU	Amazon	L-19-POWER-T-BU	\$5.89	
1	DC/DC Converter, 12/24VDC Input, 5V / 3A Output, 15W	Tobsun	EA15-5V	Amazon	EA15-5V	\$8.59	
1	DIN Rail, Slotted, 15mm, 5.5mm height, 1m length, Plated Steel. Pkg of 2	Konnect-It	DN-R15S1-2	Automation Direct	DN-R15S1-2	\$9.50	
1	Terminal Block, Single-Level, Mini, Size 26 - 12 AWG, Gray, 20A, 300V Rated, 15mm DIN Rail Mount, Pkg of 25	Konnect-It	KN-M12GRY-25	Automation Direct	KN-M12GRY-25	\$9.75	
1	Terminal Block End Cover, Gray, For use with KN-M12 or KN-M10 Series Terminal Blocks, Pkg of 10	Konnect-It	KN-ECMGRY-10	Automation Direct	KN-ECMGRY-10	\$4.00	
1	Terminal Block, Single-Level, Mini, Size 26 - 12 AWG, Blue, 20A, 300V Rated, 15mm DIN Rail Mount, Pkg of 25	Konnect-It	KN-M12BLU-25	Automation Direct	KN-M12BLU-25	\$9.75	
1	Terminal Block End Cover, Blue, For use with KN-M12 or KN-M10 Series Terminal Blocks, Pkg of 10	Konnect-It	KN-ECMBLU	Automation Direct	KN-ECMBLU	\$4.00	
1	Terminal Block End Bracket, Somp-On Type, 8mm Wide, For use with 15mm DIN Rail, Pkg of 10	Konnect-It	KN-EB5-10	Automation Direct	KN-EB5-10	\$5.50	
4	Machine Screw, Nylon, Pan Head, Phillips, #2-56 x 1/4"	B&F Fastener Supply	NY PMS 256 0025 PH	DigiKey	H530-ND	\$0.19	Mounting RGB LED Driver to PCB Standoff
4	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #2-56, 1/4" Length	RAF Electronic Hardware	4501-256-AL	DigiKey	1772-1104-ND	\$0.98	Between RGB LED Driver to Backplate
6	Machine Screw, Nylon, Pan Head, Phillips, #4-40 x 1/4"	B&F Fastener Supply	NY PMS 440 0025 PH	DigiKey	H542-ND	\$0.09	Mounting TinkerAccess Hat and Raspberry Pi to PCB Standoff
2	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #4-40, 1" Length	RAF Electronic Hardware	4513-440-AL	DigiKey	1772-1054-ND	\$0.60	Between TinkerAccess Hat and Backpanel
2	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #4-40, 5/8" Length	RAF Electronic Hardware	4507-440-AL	DigiKey	1772-1206-ND	\$0.56	Between TinkerAccess Hat and Raspberry Pi
4	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #4-40, 5/16" Length	RAF Electronic Hardware	4502-440-AL	DigiKey	1772-1253-ND	\$0.46	Between Raspberry Pi and Backpanel
4	Machine Screw, Nylon, Pan Head, Phillips, #2-56 x 3/4"	B&F Fastener Supply	NY PMS 256 0075 PH	DigiKey	H538-ND	\$0.09	Mounting LCD to Enclosure Cover
4	Round Spacer, Nylon, 3/16" Dia, #2, 1/4"	Bivar Inc	9913-250	DigiKey	492-1044-ND	\$0.10	Between LCD and Enclosure Cover
8	Hex Nut, Nylon, #2-56	Essentra Components	0400256HN	DigiKey	RPC7088-ND	\$1.00	Mounting LCD to Enclosure Cover
4	Machine Screw, Nylon, Pan Head, Phillips, #6-32 x 1/4"	B&F Fastener Supply	NY PMS 632 0025 PH	DigiKey	H554-ND	\$0.13	Mounting Charger to PCB Standoff
4	Hex Standoff, Nylon, 1/4" Hex, Male-Female #6-32, 3/8" Length	Keystone Electronics	4815	DigiKey	36-4815-ND	\$0.54	Between Charger and Backpanel
						\$130.08	

Outdoor Remote RFID Enclosure

Qty	Description	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Enclosure, NEMA 4X, 6.732" L x 4.764" W x 2.165" D, Plastic, Gray Body, Clear Cover	Bud Industries	PN-1324-CMB	DigiKey	377-1892-ND	\$20.70	
1	Faceplate, Acrylic, Custom	TinkerMill					
1	TinkerAccess Remote RFID, v1.0	TinkerMill					
4	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #4-40, 1/4" Length	RAF Electronic Hardware	4501-440-AL	DigiKey	1772-1230-ND	\$0.29	Between TinkerAccess Remote RFID and Faceplate
4	Hex Standoff, Aluminum, 1/4" Hex, Male-Female #4-40, 1-1/4" Length	Keystone	8407	DigiKey	36-8407-ND	\$1.02	Between Faceplate and Enclosure
4	Machine Screw, Nylon, Pan Head, Phillips, #4-40 x 1/4"	B&F Fastener Supply	NY PMS 440 0025 F	DigiKey	H542-ND	\$0.09	Mounting Faceplate to PCB Standoff
4	Machine Screw, Nylon, Pan Head, Phillips, #4-40 x 3/8"	B&F Fastener Supply	NY PMS 440 0038 F	DigiKey	H544-ND	\$0.09	Mounting Faceplate to Enclosure Standoff
4	Hex Nut, Nylon, #4-40, 1/4"	B&F Fastener Supply	NY HN 440	DigiKey	H616-ND	\$0.11	Mounting TinkerAccess Remote RFID to PCB Standoff
1	Light Pipe, Round Domed, Clear, Diffused, 3mm Dia, 0.25" Length	Visual Communications Company	LFB025CTP	DigiKey	LFB025CTP-ND	\$0.36	
						\$27.44	

Lock Button Enclosure

Qty	Description	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Enclosure, Pushbutton, 1 hole, 22mm, 70 x 70 x 74mm (HxWxD), Wall Mount, Thermoplastic ABS, Gray, Screw cover	Pilot Devices	SA103SL	Automation Direct	SA103SL	\$8.25	
1	Pushbutton, 22mm, 6V RGB, Momentary	Elewind	PM221-11E/42RGB/12V/S	Adafruit	3423	\$16.50	
2	Quick Connect Female Terminals, 18-22 AWG Crimp Connector Fully Insulated	Panduit	DNF18-111FIB-M	DigiKey	298-10548-ND	\$0.47	
2	Crimp Housing, 0.100" Spacing, 2-position	Molex	0050579002	DigiKey	WM2800-ND	\$0.33	
4	Crimp Terminals, 22-24AWG	Molex	0016020103	DigiKey	WM2512-ND	\$0.20	
						\$27.15	