

TinkerAccess Mounting Plate

Qty	Description	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Raspberry Pi 3 B+	Raspberry Pi Foundation	Pi 3 B+	SparkFun	DEV-14643	\$35.00	
1	Memory Card, microSD, 16GB, Class 10	SanDisk	SDSQUAR-016G-GN6MA	Amazon	SDSQUAR-016G-GN6MA	\$6.19	
1	Backplate, Acrylic, Custom	TinkerMill					
1	Faceplate, Acrylic, Custom	TinkerMill					
1	TinkerAccess Hat, v1.4	TinkerMill					
1	TinkerAccess RFID Adapter, v1.0	TinkerMill					
1	TinkerAccess RGB LED Driver, v1.0	TinkerMill					
1	LCD, 16x2 SerLCD, Black on RGB, 3.3V	SparkFun	LCD-14072	SparkFun	LCD-14072	\$19.95	
1	Adapter, Qwiic	SparkFun	DEV-14495	SparkFun	DEV-14495	\$1.50	
1	Cable, Qwiic, 200mm	SparkFun	PRT-14428	SparkFun	PRT-14428	\$1.50	
1	Relay Module, 5VDC, 1 NO/NC, with Optocoupler Isolation, High/Low Trigger Level	HiLetgo	03-01-0340	Amazon	03-01-0340	\$5.79	Door Relay
1	Relay Module, 24VDC, 1 NO/NC, with Optocoupler Isolation, High/Low Trigger Level	HiLetgo	03-01-0375	Amazon	03-01-0375	\$5.99	Bypass Detect Relay
1	Keylock Switch, 2 Position, SPST, 4A @ 125VAC, Panel Mount	E-Switch	KO128B2007	DigiKey	EG5140-ND	\$8.68	
1	Keylock Switch Cover	E-Switch	KOM1	DigiKey	KOM1-ND	\$3.56	
1	Terminal Block						
12	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, Door Relay, Bypass Relay and Backplate
4	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
5	Hex Standoff, Aluminum, 1/4" Hex, Male-Female #4-40, 2" Length	RAF Electronic Hardware	4558-440-AL	DigiKey	1772-2471-ND	\$1.33	Between Faceplate and Backplate
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 and Backplate
4	Round Spacer, Nylon, 3/16" Dia, #2, 3/16"	Bivar Inc	9913-187	DigiKey	492-1043-ND	\$0.04	Between LCD and Faceplate
2	Machine Screw, Steel, Pan Head, Phillips, #8-32 x 3/8"	B&F Fastener Supply	PMS 832 0038 PH	DigiKey	H380-ND	\$0.05	Mounting Terminal Block to Backplate
12	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, Door Relay, Bypass Relay to PCB Standoff
5	Machine Screw, Steel, Pan Head, Phillips, #4-40 x 3/8"	B&F Fastener Supply	PMS 440 0038 PH	DigiKey	H781-ND	\$0.03	Mounting Faceplate to Backplate Standoff
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	Machine Screw, Nylon, Pan Head, Phillips, #2-56 x 1/2"	B&F Fastener Supply	NY PMS 256 0050 PH	DigiKey	H534-ND	\$0.09	Mounting LCD to Faceplate
4	Hex Nut, Nylon, #2-56	Essentra Components	0400256HN	DigiKey	RPC7088-ND	\$0.06	Mounting LCD to Faceplate
						\$109.28	

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	