					BOM					
Client :										Finnix
Project Name :	Secure appliance disabling sy	/stem								
PCB File:	00001-2-HAR-A-01.PrjPcb									
PCB Ref:	1-2-HAR-A-									
Project Code :	1-2-H									
Rev Number :	A-	1							Tel:	
Date: Engineer :	9/20/2024 Varun								Fax: Web:	
Lingineer.	varun		1		1		I		web.	
			Distributor 1							
Designator	Description	Distributor 1	Part no.	FIT/NFIT	Footprint	Manufacturer	Manufacturer Part no.	Quantity	Value	Notes
Designator	1 μF ±10% 10V Ceramic	Distributor 1	Ture no.	111/14111	тоогрине	Manadactarer	Manadactarer Fare no.	Quartity	Value	Note3
	· ·									
	Capacitor X7R 0805 (2012									
C1, C2, C3, C4	Metric)	digikey	490-1695-1-ND	FIT	CAP0805		GRM21BR71A105KA01L	4	1uF 10V	
	100 μF 6.3 V Aluminum		478-			Panasonic				
	Electrolytic Capacitors Radial,		08056D104KAT			Electronic				
C5	Can 2000 Hrs @ 85°C	Digikey	2ACT-ND	FIT	EC-A_PAN	Components	ECA-0JM101	1	100uF 6.3V	
	2.2 µF 35 V Aluminum	,			_	'				
	Electrolytic Capacitors Radial,				CAP_RN_10X12					
C6	Can 20000 Hrs @ 105°C	Digikey	493-15889-ND	FIT	P5_NCH	Nichicon	UPX1V2R2MPD	1	2.2uF 35V	
Co	0.1 µF ±10% 6.3V Ceramic	Digikey	478-	ri i	F3_INCH	MICHICOH	OFA I VZRZIVIFD	- '	2.2UF 33V	
67 644 640	'		-						04 563	
C7, C11, C12,	Capacitor X5R 0805 (2012		08056D104KAT						0.1 μF 6.3	
C13	Metric)	digikey	2ACT-ND	FIT	CAP0805	KYOCERA AVX	08056D104KAT2A	4	V	
	1000 pF ±10% 10V Ceramic		399-							
	Capacitor X7R 0805 (2012		C0805C102K8R							
C8	Metric)	Digikey	AC7800CT-ND	FIT	CAP0805	KEMET	C0805C102K8RAC7800	1	1nF 10 V	
	22 μF ±10% 6.3V Ceramic	, , , , , , , , , , , , , , , , , , ,	478-							
	Capacitor X5R 0805 (2012		08056D104KAT			Samsung Electro-				
C9, C10	Metric)	digikey	2ACT-ND	FIT	CAP0805	Mechanics	CL21A226KQCLRNC	2	22 µF 6.3 V	
C9, C10	ivietric)	шукеу	ZACT-ND	ГП	SOT-	Mechanics	CLZTAZZORQCLRINC		SCHOT	
	Remote Receiver Sensor				323_2P2X1P35				30V	
D1	38.0kHz 20m Through Hole	Digikey	497-5550-1-ND	FIT	X1P3_STM-M	STMicroelectronics	BAT30CWFILM	1	300MA	
									SENSOR	
									REMOTE	
									REC	
	Remote Receiver Sensor								38.0KHZ	
IR1	38.0kHz 20m Through Hole	digikey	751-1227-ND	FIT	TSOP382	KYOCERA AVX	TSOP38238	1	20M	
113.1	Connector Header Through	argincy	131 1227 110		1331302	KI OCLIVA AVA	130130230	<del>  '</del>	LOIVI	
	Hole, Right Angle 2 position				MOLEX_530480					
		D: 11	NAME AND ADDRESS OF THE PARTY O	FIT	_					
J1	0.049" (1.25mm)	Digikey	WM1742-ND	FIT	210	Molex		1	TEDRA DI V	
									TERM BLK	
1	2 Position Wire to Board		1		1				2POS SIDE	
	Terminal Block Horizontal								ENT	
	with Board 0.138" (3.50mm)				PHOENIX_1984				3.5MM	
J2, J3, J4, J5	Through Hole	Digikey	277-1721-ND	FIT	617	Phoenix Contact	1984617	4	PCB	
52, 53, 5-1, 53	Connector Header Through	z.g/kcy	2.7 1721 140		10.7	comx contact	1304017	<del>                                     </del>	. 55	
	Hole 3 position 0.100"		S1011EC-03-		CONN DDDCOO	Sullins Connector				
16	· ·	Distillus		FIT	_		DDDC003C4451 DC	l .		
J6	(2.54mm)	Digikey	ND	FIT	3SAAN-RC_SUL	Solutions	PRPC003SAAN-RC	1		

	1		1	1	ı	ı	1			1
									CONN	
	Connector Header Through								HEADER	
	Hole 4 position 0.100"				Amphenol_FCI_	Amphenol ICC			VERT 4POS	
17	(2.54mm)	Digikey	609-3255-ND	FIT	0 MFG	(FCI)	68000-204HLF		2.54MM	
·	(2.3)	z.g.ncy	003 3233		WL-	(, c.,	00000 20 11121	•	2.5	
	Green 568nm LED Indication	-			TMRC_D3.95H5				2.2 V	
LED1	Discrete 2.2V Radial	Digikey	732-5008-ND	FIT	.3_GREEN	Würth Elektronik	151031VS06000	1	20mA	
		3 ,			WL-					
	Blue 470nm LED Indication -				TMRC_D3.95H5				2.2 V	
LED2	Discrete 2.8V Radial	Digikey	732-5008-ND	FIT	.3_BLUE	Würth Elektronik	151034BS03000	1	20mA	
	Standard LEDs - SMD Super		720-LSM676-		LEDM2214X14				2.3 V	
LED3	Red, 633nm 224mcd, 20mA	Mouser	Q2S1-1-Z	NFIT	0N	ams OSRAM	LS M676-Q2S1-1-Z	1	30mA	
	P-Channel 20 V 2.5A (Ta)				TO-92-					
	800mW (Ta) Surface Mount		BC557ATACT-		3L_5P33X5P2_				BJT PNP	
Q1	SOT-23-3	Digikey	ND	FIT	ONS	onsemi	BC557ATA	1	45V 0.1A	
	Bipolar (BJT) Transistor NPN		2456 D6540 56		TO-92-	E			TRANS	
	30 V 100 mA 300MHz 500	··	2156-BC548-FS-		3L_5P33X5P2_	Fairchild	25.40		NPN 30V	
Q2	mW Through Hole TO-92-3 P-Channel 20 V 2.5A (Ta)	Digikey	ND	FIT	ONS	Semiconductor	BC548	1	0.1A	
	` '		DMG2301U-		SOT23_DMG23	Diadaa			P-Channel	
Q3, Q4	800mW (Ta) Surface Mount SOT-23-3	digikey	7DICT-ND	FIT	01U DIO		DMG2301U-7		20 V 2.5A	
Q5, Q4	301-23-3	aigikey	/DICT-ND	ги	010_010	Incorporated Panasonic	DIVIG23010-7	۷	20 V 2.3A	
	NTC Thermistor 10k Bead,					Electronic				
R1	Ероху	Digikey	615-1054-ND	FIT	DC USS		DC103G9G	1	10K	
	383 Ohms ±0.1% 0.125W,	Digikey	013 1034 112		DC_033	components	DC103030		1010	
	1/8W Chip Resistor 0805		10-ERA-			Panasonic				
	(2012 Metric) Automotive		6AEB3830VCT-			Electronic				
R2	AEC-Q200 Thin Film	Digikey	ND	FIT	RES0805	Components	ERA-6AEB3830V	1	383	
	27 kOhms ±5% 0.125W,									
	1/8W Chip Resistor 0805					Panasonic				
	(2012 Metric) Automotive					Electronic				
R3, R15	AEC-Q200 Thick Film	Digikey	P27KACT-ND	FIT	RES0805	Components	ERJ-6GEYJ273V	2	27K	
	100 Ohms ±5% 0.125W,									
	1/8W Chip Resistor 0805					Panasonic				
	(2012 Metric) Automotive					Electronic				
R4, R5	AEC-Q200 Thick Film	Digikey	P100ACT-ND	FIT	RES0805	Components	ERJ-6GEYJ101V	2	100	
	1 kOhms ±5% 0.125W, 1/8W		10 EDA			Danasani -				
	Chip Resistor 0805 (2012		10-ERA-			Panasonic				
D.C	Metric) Automotive AEC-	Disiles	6AEB3830VCT-	FIT	DECOROS	Electronic	D1 OKACT ND	4	11/	
R6	Q200 Thick Film 560 Ohms ±0.1% 0.125W,	Digikey	ND	FIT	RES0805	Components	P1.0KACT-ND	1	1K	
	1/8W Chip Resistor 0805					Panasonic				
	(2012 Metric) Automotive					Electronic				
R7, R11	AEC-Q200 Thin Film	Digikey	P560DACT-ND	FIT	RES0805	Components	ERA-6AEB561V	2	560	
IM, IMI	ALC-Q200 HIIII FIIIII	pidiveà	I JOODACI-ND	l	1120003	Components	EIVA-UALDOU I V	۷	300	

	[330 Ohms ±0.1% 0.125W,	1			ı			1		1
	1/8W Chip Resistor 0805					Panasonic				1
	(2012 Metric) Automotive					Electronic				1
DO	AEC-Q200 Thin Film	Dieileer	D220DACT ND	FIT	DECODOL		EDA CAEDZZIV	1	220	1
R8	100 Ohms ±0.1% 0.125W.	Digikey	P330DACT-ND	FII	RES0805	Components	ERA-6AEB331V	1	330	
	1/8W Chip Resistor 0805					Panasonic				1
	(2012 Metric) Automotive					Electronic				1
R9	AEC-O200 Thin Film	Digikey	P100DACT-ND	NFIT	RES0805		ERA-6AEB101V	1	100	1
N.S	510 Ohms ±0.1% 0.125W,	Digikey	F TOODACT-ND	INFII	KE30003	Components	ERA-OALD TO TV	1	100	
	1/8W Chip Resistor 0805					Panasonic				1
	(2012 Metric) Automotive					Electronic				1
R10	AEC-Q200 Thin Film	Digikey	P510DACT-ND	FIT	RES0805	Components	ERA-6AEB511V	1	510	1
R12, R13, R16,	10 kOhms ±0.1% 0.125W,	Digikey	1310DACT ND		RESOUGS	Components	EIGA OALDSTIV		310	
R17, R18, R19,	1/8W Chip Resistor 0805					Panasonic				1
R20, R21, R22,	(2012 Metric) Automotive					Electronic				1
R23, R24	AEC-O200 Thin Film	Digikey	P10KDACT-ND	FIT	RES0805		ERA-6AEB103V	11	10K	1
1120/1121	33 kOhms ±5% 5W Chip	z.g.ney				Components	2101 071251051			
	Resistor 5329 (13573 Metric),									1
	J-Lead Flame Retardant				RES_SMF5_TYC	TE Connectivity				1
R14	Coating, Safety Metal Film	Digikey	A106035CT-ND	FIT	O TYC	Passive Product	SMF533KJT	1	33K	1
	3,	,	340142-SRD-		RELAY_SRD-					
RL1, RL2	5V Trigger Relay Module	Winsource	05VDC-SL-C	FIT	05VDC-SL-C	SongLe	SRD-05VDC-SL-C	2		1
·	33 ,					TE Connectivity				
	Tactile Switch SPST-NO Top				SW4_1825910-	ALCOSWITCH				1
SW1	Actuated Through Hole	Digikey	450-1647-ND	FIT	E_TEC	Switches	1-1825910-8	1		1
TP1, TP2					TEST_POINT			2		
	AC to DC Power Supply				CONV_HLK-					
U1	Module	ElectroncisComp	EC-4693	FIT	10M05	Hi-link	HLK-10M05	1		1
			296-							
	800-MA LINEAR BATTERY		BQ25170DSGR							1
U2	CHARGER FO	Digikey	CT-ND	FIT	DSG0008A	Texas Instruments		1		
					SO1-23-5SC-					
					74A_PE-SOT-					1
	Linear Voltage Regulator IC		2129-		23-5-					1
	Positive Fixed 1 Output		RP170N331D-		180326_NMD-	Nisshinbo Micro				1
U3	300mA SOT-23-5	Digikey	TR-FECT-ND	FIT	М	Devices Inc.		1	IC DECARE	
	C								IC DECADE	
	Counter IC Counter, Decade 1								COUNTER	
l	Element 10 Bit Positive,							_	10BIT	1
U4	Negative 16-PDIP Current Sensor 20A 1	digikey	296-2037-5-ND	FIT	N16	Texas Instruments	CD4017BE	1	16DIP SENSOR	
									CURRENT	1
	Channel Hall Effect, Open				COIC1270C00V					
lue.	Loop Bidirectional 8-SOIC	D'allan	620 1100 1 1:5	FIT	SOIC127P600X		A CC712EL CTD 224 T	_	HALL 20A	
U5	(0.154", 3.90mm Width)	Digikey	620-1190-1-ND	FII	175-8N	onsemi	ACS712ELCTR-20A-T	1	AC/DC	<u> </u>

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									6PIN AC	
									INPUT,	
	Optoisolator Transistor with					Isocom			SINGLE	
	Base Output 5000Vrms 1				DIP762W50P25	Components 2004			OPTOCOU	
U6	Channel 6-DIP	digikey	58-H11AA1-ND		4L730H410Q6		H11AA1		PLE	
		99						•		
	Bluetooth, WiFi 802.11b/g/n,									
	Bluetooth v4.2 +EDR, Class 1,									
	2 and 3 Transceiver Module		1965-ESP32-						RF TXRX	
	2.4GHz ~ 2.5GHz Integrated,		WROOM-32E-		ESP32-WROO				MOD BT	
U7	Trace Surface Mount	Digikey	N4CT-ND	FIT	M-32E_EXP	Espressif Systems	ESP32-WROOM-32E-N4	1	BLE WIFI	
	miniature cellular GSM									
U8	modem	Alibaba		FIT	SIM800L-CORE	SIMCOM	-	1		
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