

BOM														
Client :	TBD													Finnix Enterprises
Project Name :	Loan Scam buster													
PCB File:	00001-2-HAR-A-01.PrjPcb													
PCB Ref:	1-2-HAR-A-													
Project Code :	1-2-H													
Rev Number :	A-												Tel :	
Date:	27-09-2024												Fax :	
Engineer :	Varun												Web :	
Designator	Description	Distributor 1	Distributor 1 part no.	FIT/NFIT	Footprint	Manufacturer	Manufacturer part no.	Quantity	Value	Price	Price_1	Price_2	Notes	
C1, C2, C3, C4	1 μ F \pm 10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	digikey	490-1695-1-ND	FIT	CAP0805	Murata Electronics	GRM21BR71A105KA01L	4	1uF 10V	₹10.06				
C5	100 μ F 6.3 V Aluminum Electrolytic Capacitors Radial, Can 2000 Hrs @ 85°C	Digikey	478-08056D104KAT2ACT-ND	FIT	EC-A_PAN	Panasonic Electronic Components	ECA-0JM101	1	100uF 6.3V	₹17.60				
C6	2.2 μ F 35 V Aluminum Electrolytic Capacitors Radial, Can 20000 Hrs @ 105°C	Digikey	493-15889-ND	FIT	CAP_RN_10X12 P5_NCH	Nichicon	UPX1V2R2MPD	1	2.2uF 35V	₹67.89				
C7, C11, C12, C13	0.1 μ F \pm 10% 6.3V Ceramic Capacitor X5R 0805 (2012 Metric)	digikey	478-08056D104KAT2ACT-ND	FIT	CAP0805	KYOCERA AVX	08056D104KAT2A	4	0.1 μ F 6.3 V	₹8.38				
C8	1000 pF \pm 10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	Digikey	399-C0805C102K8RAC7800CT-ND	FIT	CAP0805	KEMET	C0805C102K8RAC7800	1	1nF 10 V	₹10.06				
C9, C10	22 μ F \pm 10% 6.3V Ceramic Capacitor X5R 0805 (2012 Metric)	digikey	478-08056D104KAT2ACT-ND	FIT	CAP0805	Samsung Electro-Mechanics	CL21A226KQCLRNC	2	22 μ F 6.3 V	₹9.22				
D1	Remote Receiver Sensor 38.0kHz 20m Through Hole	Digikey	497-5550-1-ND	FIT	SOT-323_2P2X1P35 X1P3_STM-M	STMicroelectronics	BAT30CWFILM	1	SCHOT 30V 300MA	₹20.12				
IR1	Remote Receiver Sensor 38.0kHz 20m Through Hole	digikey	751-1227-ND	FIT	TSOP382	KYOCERA AVX	TSOP38238	1	SENSOR REMOTE REC 38.0KHZ 20M	₹91.36				
J1	Connector Header Through Hole, Right Angle 2 position 0.049" (1.25mm)	Digikey	WM1742-ND	FIT	MOLEX_530480 210	Molex		1		₹31.85				

J2, J3	2 Position Wire to Board Terminal Block Horizontal with Board 0.197" (5.00mm) Through Hole	Digikey	102-6161-ND	FIT	CUI_TB003-500-P02BE	Same Sky	TB003-500-P02BE	2	TERMINAL BLOCK, SCREW TYPE, 5.00	₹29.34000			
J4, J5	2 Position Wire to Board Terminal Block Horizontal with Board 0.138" (3.50mm) Through Hole	Digikey	277-1721-ND	FIT	PHOENIX_1984617	Phoenix Contact	1984617	2	TERM BLK 2POS SIDE ENT 3.5MM PCB	₹36.88000			
J6	Connector Header Through Hole 3 position 0.100" (2.54mm)	Digikey	S1011EC-03-ND	FIT	CONN_PRPC003SAAN-RC_SUL	Sullins Connector Solutions	PRPC003SAAN-RC	1		₹36.88			
J7	Connector Header Through Hole 4 position 0.100" (2.54mm)	Digikey	609-3255-ND	FIT	Amphenol_FCI_0_MFG	Amphenol ICC (FCI)	68000-204HLF	1	CONN HEADER VERT 4POS 2.54MM	₹36.88			
LED1	Green 568nm LED Indication - Discrete 2.2V Radial	Digikey	732-5008-ND	FIT	WL-TMRC_D3.95H5.3_GREEN	Würth Elektronik	151031VS06000	1	2.2 V 20mA	₹13.41			
LED2	Blue 470nm LED Indication - Discrete 2.8V Radial	Digikey	732-5008-ND	FIT	WL-TMRC_D3.95H5.3_BLUE	Würth Elektronik	151034BS03000	1	2.2 V 20mA	₹16.76			
LED3	Standard LEDs - SMD Super Red, 633nm 224mcd, 20mA	Mouser	720-LSM676-Q2S1-1-Z	NFIT	LEDM2214X140N	ams OSRAM	LS M676-Q2S1-1-Z	1	2.3 V 30mA	₹36.70			
Q1	P-Channel 20 V 2.5A (Ta) 800mW (Ta) Surface Mount SOT-23-3	Digikey	BC557ATACT-ND	FIT	TO-92-3L_5P33X5P2_ONS	onsemi	BC557ATA	1	BJT PNP 45V 0.1A	₹24.31			
Q2	Bipolar (BJT) Transistor NPN 30 V 100 mA 300MHz 500 mW Through Hole TO-92-3	Digikey	2156-BC548-FS-ND	FIT	TO-92-3L_5P33X5P2_ONS	Fairchild Semiconductor	BC548	1	TRANS NPN 30V 0.1A	-			
Q3, Q4	P-Channel 20 V 2.5A (Ta) 800mW (Ta) Surface Mount SOT-23-3	digikey	DMG2301U-7DICT-ND	FIT	SOT23_DMG2301U_DIO	Diodes Incorporated	DMG2301U-7	2	P-Channel 20 V 2.5A	₹25.15			
R1	NTC Thermistor 10k Bead, Epoxy	Digikey	615-1054-ND	FIT	DC_USS	Panasonic Electronic Components	DC103G9G	1	10K		₹90.53	Rs.9.00	

R2	383 Ohms ±0.1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thin Film	Digikey	10-ERA- 6AEB3830VCT- ND	FIT	RES0805	Panasonic Electronic Components	ERA-6AEB3830V	1	383	₹10.90			
R3, R15	27 kOhms ±5% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	Digikey	P27KACT-ND	FIT	RES0805	Panasonic Electronic Components	ERJ-6GEYJ273V	2	27K	₹8.38			
R4, R5	100 Ohms ±5% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	Digikey	P100ACT-ND	FIT	RES0805	Panasonic Electronic Components	ERJ-6GEYJ101V	2	100	₹8.38			
R6	1 kOhms ±5% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	Digikey	10-ERA- 6AEB3830VCT- ND	FIT	RES0805	Panasonic Electronic Components	P1.0KACT-ND	1	1K	₹8.38			
R7, R11	560 Ohms ±0.1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thin Film	Digikey	P560DACT-ND	FIT	RES0805	Panasonic Electronic Components	ERA-6AEB561V	2	560	₹10.90			
R8	330 Ohms ±0.1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thin Film	Digikey	P330DACT-ND	FIT	RES0805	Panasonic Electronic Components	ERA-6AEB331V	1	330	₹10.90			
R9	100 Ohms ±0.1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thin Film	Digikey	P100DACT-ND	NFIT	RES0805	Panasonic Electronic Components	ERA-6AEB101V	1	100	₹10.90			
R10	510 Ohms ±0.1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thin Film	Digikey	P510DACT-ND	FIT	RES0805	Panasonic Electronic Components	ERA-6AEB511V	1	510	₹10.90			
R12, R13, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26	10 kOhms ±0.1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thin Film	Digikey	P10KDACT-ND	FIT	RES0805	Panasonic Electronic Components	ERA-6AEB103V	13	10K	₹10.90			

R14	33 KOhms ±5% 5W Chip Resistor 5329 (13573 Metric), J- Lead Flame Retardant Coating, Safety Metal Film	Digikey	A106035CT-ND	FIT	RES_SMF5_TYC O_TYC	TE Connectivity Passive Product	SMF533KJT	1	33K	₹92.20			
RL1, RL2	5V Trigger Relay Module	Winsource	340142-SRD- 05VDC-SL-C	FIT	RELAY_SRD- 05VDC-SL-C	SongLe	SRD-05VDC-SL-C	2		₹0.28			
SW1	Tactile Switch SPST- NO Top Actuated Through Hole	Digikey	450-1647-ND	FIT	SW4_1825910- E_TEC	TE Connectivity ALCOSWITCH Switches	1-1825910-8	1		₹8.38			
U1	AC to DC Power Supply Module	ElectroncisCom p	EC-4693	FIT	CONV_HLK- 10M05	Hi-link	HLK-10M05	1		₹199			
U2	800-MA LINEAR BATTERY CHARGER FO	Digikey	296- BQ25170DSGR CT-ND	FIT	DSG0008A	Texas Instruments		1		₹84.66			
U3	Linear Voltage Regulator IC Positive Fixed 1 Output 300mA SOT-23-5	Digikey	2129- RP170N331D- TR-FECT-ND	FIT	SOT-23-5SC- 74A_PE-SOT-23- 5-180326_NMD M	Nisshinbo Micro Devices Inc.		1		₹48.62			
U4	Counter IC Counter, Decade 1 Element 10 Bit Positive, Negative 16-PDIP	digikey	296-2037-5-ND	FIT	N16	Texas Instruments	CD4017BE	1	IC DECADE COUNTER 10BIT 16DIP	₹87.17			
U5	Current Sensor 20A 1 Channel Hall Effect, Open Loop Bidirectional 8-SOIC (0.154", 3.90mm Width)	Digikey	620-1190-1-ND	FIT	SOIC127P600X 175-8N	onsemi	ACS712ELCTR- 20A-T	1	SENSOR CURRENT HALL 20A AC/DC	₹317.68			
U6	Optoisolator Transistor with Base Output 5000Vrms 1 Channel 6-DIP	digikey	58-H11AA1-ND	FIT	DIP762W50P25 4L730H410Q6	Isocom Components 2004 LTD	H11AA1	1	6PIN AC INPUT, SINGLE OPTOCOUPLER	₹29.49416			
U7	Bluetooth, v4.2 802.11b/g/n, Bluetooth v4.2 +EDR, Class 1, 2 and 3 Transceiver Module 2.4GHz ~ 2.5GHz Integrated, Trace Surface Mount	Digikey	1965-ESP32- WROOM-32E- N4CT-ND	FIT	ESP32-WROO M-32E_EXP	Espressif Systems	ESP32-WROOM- 32E-N4	1	RF TXRX MOD BT BLE WIFI	₹209.55			
U8	miniature cellular GSM modem	Alibaba		FIT	SIM800L-CORE	SIMCOM	-	1		₹100			

