







			1		
Bill o	f Mate	rials	Bill of Materials For Project [DE	-290817.PrjPcb] (No PCB Docum	ent Selec
ource Data	From:	DE-290817.PrjF		-	
roject: ariant:		DE-290817.PrjF None	² cb	-	
reation Date:	20.09.2017.	17:37:28			
int Date:	42998	42998,73439			
ootprint 805	Comment	LibRef	Designator	Description	Quantity
305	10uF	C0805	CARD CARE CAAR CARE COAE COAE	Ceramic Chip Capacitor - Standard	10
503	100nF	C0603	C100, C100, C110, C120, C210, C210, C217, C220, C221, C301 C101, C102, C103, C104, C105, C111, C113, C114, C115, C116, C117, C118, C119, C122, C200, C201, C202, C203, C204, C205, C206, C207, C206, C209, C214, C218, C219, C300, C302, C303 C107, C108, C305, C312	Ceramic Chip Capacitor - Standard	30
			C119, C122, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209,		
503	22pF	C0603	C214, C218, C219, C300, C302, C303 C107, C108, C305, C312	Ceramic Chip Capacitor - Standard	4
503 503 503	6p8 1uF	C0603 C0603	C107, C108, C305, C312 C109, C112 C121	Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard	2
	22nF 220uF/50V	C0603 EEEHA1H101P	C211 C212	Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard Auminum Electrolytic Capacitors (SMD	1
EEHA1H10	220uF/16V	EEEHA1C221P	C213	Aluminum Electrolytic Capacitors (SMD	1
503 503 503	1nF	C0603	C304 C306, C309	Type) Ceramic Chip Capacitor - Standard	1
503	NF 220pF	C0603 C0603 C0603	C306, C309 C307, C310	Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard	2
503 6X0 8X0 8	15pF	C0603 C0603 HSMZ-C190	C313, C314 D100	Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard High Performance Chip LED, Red	2
N2 6X0.8X0.8	100pF 15pF LED_BLUE NTC 10K LED_RED 1N4148	PROTO SER	D101 D102		1
DD323	1N4148	1PS76SB10, 1PS76SB10, 1PS76SB10,	D103, D106, D107, D204	High Performance Chip LED, Red Schottky Barrier Diode, Schottky Barrier Diode, Schottky Barrier Diode, General- purpose Diode	4
6X0.8X0.8 6X0.8X0.8	LED_GREEN LED_WHITE 3V3	HSMZ-C190 HSMZ-C190 1PS76SB10	D104 D105	High Performance Chip LED, Red High Performance Chip LED, Red Schottky Barrier Diode	1
			D200, D201, D202, D203, D205, D206, D207, D208		8
NSC-SMA-	SR3100	MBRA320T3G	D209	Schottky Power Rectifier, 2-Pin SMA, Pb- Free, Tape and Reel	1
33D- 2_C_V MD-0805	120R	74279202	L100	SMD EMI Suppression Ferrite Bead WE- CBF, Z = 120 Ohm SMD-Shielded Power Inductor WE-PD, L	1
E-PD-XL	wurth WE- PD=744770133	744770133	L200		1
MD-0805	PD=744770133 74279207	74279207	L300	SMD EMI Suppression Ferrite Bead WE-	1
MD-0805	560nH/300mA	74279207	L301, L302	SMD EMI Suppression Ferrite Bead WE- CBF, Z = 100 Ohm 5Vdc PCB buzzer	2
UZZER DR2X4	Buzzer 5Vdc NRF24L01	BUZZER Header 4X2 DISPLAY	LS200 P100 P101		1
ISPLAY ON ISP DR1X2	SPI TFT DISPLAY	DISPLAY CONNECTOR ICSP		DISPLAY ILI9341 240x320 CONNECTO	1
SP DR1X2	DTC DATTERY		P102 P103	ICSP connection pads Header, 2-Pin	1
DR2X17 B241_6	CON 1 FB241	Header 17X2 TERMINAL	P200 P201	Header, 2-Pin Header, 17-Pin, Dual row PCB MOUNT TERMINAL BLOCK 2.5MM	1
DT23_N	MMBT2222	BLOCK 6 BC817 2N7002.	Q100 Q200, Q204, Q206, Q207, Q208		1
DT23_N	2N7002	2N7002, BSS123, BSS123,	Q200, Q204, Q206, Q207, Q208	NPN General-purpose Transistor N-channel Enhancement Mode Field-effe Transistor, N-channel Enhancement Mod Vertical D-MOSFET, N-channel Enhancement Mode Vertical D-MOSFET,	5
		BSS123, BSS123, BSS123		Enhancement Mode Vertical D-MOSFET,	
		B00123		channel Enhancement Mode Vertical D- MOSFET, N-channel Enhancement Mode Vertical D-MOSFET	
NSC-SOIC- 751-07_V	STS4DNF60L	NVMD6N04R20	Q201	Power MOSFET, 40 V, 5.8 A, Dual N- Channel, 8-Pin SOIC, Pb-Free, Tape and	1
DT23 N	AO3400	2N7002	Q202, Q203, Q205, Q209, Q210	Reel N-channel Enhancement Mode Field-effe	5
RA-0603	120R	ERAV	R100, R103, R106		3
				Metal Film Thermosensitive Chip Resistor 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chip Resistor	
RA-0603	100K	ERAV	R101, R104	Metal Film Thermosensitive Chip Resistor 0.56 Ohm to 10k Ohm Range, 5%	2
RA-0603	220R	ERAV	R102	0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5%	1
	100R	ERAV	R105	0.56 Ohm to 10k Ohm Range, 5% Tolerance, 6003 Size, 0.063 W Metal Film Thermosenstive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W Metal Film Thermosenstive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.083 W Metal Film Thermosenstive Chip Resisto 15 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.083 W Metal Film Thermosenstive Chip Resisto 15 Chip Chip Size, 0.083 W Metal Film Thermosenstive Chip Resisto 15 Chip Chip Size, 0.083 W	
RA-0603	100K	EKAV	K105	0.56 Ohm to 10k Ohm Range, 5%	1
RA-0603	4R7	ERAV	R107	Metal Film Thermosensitive Chip Resistor	1
RA-0603	1K	ERAV	R108, R109, R110	Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chin Resistor	3
0000		LION	Kino, Kino, Kino	0.56 Ohm to 10k Ohm Range, 5% Tolerance 0503 Size 0.063 W	,
RA-0603	4K7	ERAV	R111, R112	0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5%	2
RA-0603	10K	ERAV	R113, R114, R116, R117, R201, R203,	Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	29
			R113, R114, R116, R117, R201, R203, R204, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R221, R222, R223, R229, R232, R233, R235, R301 R115	0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	
			R217, R218, R219, R221, R222, R223, R229, R232, R233, R235, R301		
RA-0603	NF	ERAV	K115	Metal Film Thermosensitive Chip Resistor 0.56 Ohm to 10k Ohm Range, 5%	1
RA-0603	OR	ERAV	R200, R205	Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	2
D3.2x1.7	NF	ERD6FC	R202	Tolerance, 0603 Size, 0.063 W Flame-Retardant Fuse Type Carbon Film	4
	-			Flame-Retardant Fuse Type Carbon Film Resistor, 4.7 Ohm to 1k Ohm Range, 2% and 5% Tolerance, 0.166 W Metal Film Thermosensitive Chip Resistor	
RA-0603	10R	ERAV	R220	Metal Film Thermosensitive Chip Resistor 0.56 Ohm to 10k Ohm Range, 5%	1
RA-0603	2K2	ERAV	R224, R225, R226, R228, R230, R231	0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Chip Resisto 0.56 Ohm to 10k Ohm Range, 5%	6
				0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	
RA-0603	1K2	ERAV	R227	0.56 Ohm to 10k Ohm Range, 5% Tolerance, 6030 Size, 0.063 W Metal Film Thermosensitive Chip Resistio 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 6030 Size, 0.063 W Metal Film Thermosensitive Chip Resistio 0.56 Ohm to 10k Ohm Range, 5% Tolerance, 6030 Size, 0.063 W Low Ohmic Value Thick Film Chip Resisti 0.10 Ohm to 20 Chm Range, 5% 10 Ohm to 20 Chm Range, 5% 10 Ohm to 20 Chm Range, 5% 10 Ohm to 20 Chm Range, 5% 5% Tolerance, 6030 Size, 0.1 W 5% Tolerance, 6030 Size, 0.1 W	1
RA-0603	3К3	ERAV	R234	Metal Film Thermosensitive Chip Resistor 0.56 Ohm to 10k Ohm Ranne 5%	1
0603	1K8	ERJ3RS	R300, R302	Tolerance, 0603 Size, 0.063 W Low Ohmic Value Thick Film Chin Posterio	2
				0.1 Ohm to 0.2 Ohm Range, 1%, 2% and 5% Tolerance, 0603 Size, 0.1 W	
0603	1R8	ERJ3RS	R303, R304	Low Ohmic Value Thick Film Chip Resiste	2
				0.1 Ohm to 0.2 Ohm Range, 1%, 2% and 5% Tolerance, 0603 Size, 0.1 W	
ACTILE_S	TAMPER	TACKTILE_SW	S100	-	1
DP8	CAP1293	TCH CAP1293	U100	3-Channel Capacitive Touch Sensor with	1
016_N	SN74HC595D	SN74HC595D	U101	3-Channel Capacitive Touch Sensor with Proximity Detection & Signal Guard 8-Bit Shift Register with 3-State Output	1
TM- QFP48_N	STM32F103C8	STM32F103C8	U102	Registers	1
	6 FT24C128A	5 248.654/SN	U103	20 KB Internal RAM, 37 I/Os, 48-pin LQFI 40 to 85 degC, Tray 64Kbit, 400kHz, 1.7V, I2C Serial EEPROI	
					1
DIJ-SM8_N	W25Q64	25LC640A-I/SN	U104	Temperature 64K SPI Bus Serial EEPROM, 8-Pin SOIG Industrial Temperature	1
SO8_M	MAX485ESA	MAX485ESA	U200	Low-Power, Slew-Rate-Limited RS-485/R 422 Transceiver	1
S5B_N	LM2596S-ADJ	LM2596S-ADJ	U201	SIMPLE SWITCHER® Power Converte0 KHz 3A Step-Down Voltage Regulator, 5-	1
Ž311	REG1117-3.3	REG1117-3.3	U202	TO-263 800mA and 1A Low Dropout Positive	1
				Regulator 2.85V, 3.3V, 5V, and Adjustable	
FN32 C49/4H_SN	MFRC522 8MHz	MFRC522 HC49/4H_SMX	U300 Y100	MIFARE reader writer Surface Mount Quartz Crystal	1
26 C49/4H SN	32.768MHz 27.12 MHz	R26-32.768 ECS-80-20-1	Y101 Y300	Tuning Fork Crystal Unit Crystal Oscillator	1
o-asi+H_SN	AT, IZ MHZ	LUG-80/20-1		Crystal Oscillator	177
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