



Title		
Size	Number	Revision
A		
Date:	3/08/2024	Sheet of
File:	D:\MyElectric\...\RMD6300.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
CD40106	Schmitt-Trigger	*1	SO14	CD40106	1
RS485_Module		*2	RS485_MODULE	RS485_Module	1
PJ322 Audio 3.5mm		*3	PJ-322	PJ322 Audio 3.5mm	1
BC501SM		BT1	BAT_BC501SM	BC501SM	1
100UF/6.3V		C1, C6, C13, C18, C25	CAP_4TPE100M2B	T4938107K006AK6110	5
104		C2, C3, C4, C5, C7, C9, C10, C11, C12, C16, C17, C19, C20, C31, C36, C37, C38	CN-SMD-0603	CN	17
474		C8	CN-SMD-0603	CN	1
102		C14	CN-SMD-0603	CN	1
0		C15	CN-SMD-0603	CN	1
106		C21	CN-SMD-0603	CN	1
100nF		C22	CN-SMD-0603	CN	1
220UF/16V		C23	CAPMP7343K430N	T543X337M016ATS025	1
105		C24, C26	CN-SMD-0805	CN	2
1.5pF		C27, C28	CN-SMD-0603	CN	2
8pF		C29, C34	CN-SMD-0603	CN	2
103		C30	CN-SMD-0603	CN	1
10uF		C32	CN-SMD-0805	CN	1
100UF/6.3V		C33	CAPPM3528X210N	T4938107K006AK6110	1
105		C35	CN-SMD-0603	CN	1
4.7uF		C39	CN-SMD-0603	CN	1
100nF		C40	CN1.5	CN	1
4.7uF		C41, C42	CN1.5	CN	2
3.3nF		C43	CN1.5	CN	1
1nF		C44, C45	CN1.5	CN	2
105		C41, C42	CN1.5	CN	2
BAT54C_RF		D1	SOT95P237X112-3N	BAT54C_RF	1
TVS 16V	Default Diode	D2	DIO-SMD-106	Diode SMD	1
100	Resistor	D3	RES-SMD-0603	Res-SMD	1
1n4148	Default Diode	D4, D5, D6	DIO-SMD-106	Diode SMD	3
Diode SMD	Default Diode	D101, D102	DIO-SMD-106	Diode SMD	2
2A-24V	Fuse	F1	RESC2012X65N	1812L010DR	1
STM32F401CCU6	Integrated Circuit	IC1	QFN50P700X700X60-49N	STM32F401CCU6	1
LM358	Low-Power Dual Operational Amplifier	IC2	DIP8	LM358	1
AMS1084-5V		IC*1	TO252-123	AMS1084-5V	1
653010117322	WR-WTB THT Male Horizontal Shrouded Header, pitch 1.25mm, 10p	J1, J2	653010117322	653010117322	2
USB4056-03-A_REVA		J3	GCT_USB4056-03-A_REVA	USB4056-03-A_REVA	1
BLE	WR-WTB THT Male Horizontal Shrouded Header, pitch 1.25mm, 5p	J4	653005114822	653005117322	1
Coil	Header IDC, 2 x 1 Pin Vertical 2.54mm Pitch (Non-Boxed, Male)	J5	HDR2	Header2	1
22uH	Inductor	L1	CN-SMD-1206	L1	1
100uH	Inductor	L2	CN-SMD-1206	L-DIP-1	1
4.7uH	Inductor	L3	CN-SMD-0603	L-SMD-1	1
LED	LED 2 colour Green and Red	LED1	LED-32 - CONG	LED2	1
LED	LED Single colour Green and Red	LED2	LED-3MM-YELLOW	LED	1
SWD	WR-WTB THT Male Vertical Shrouded Header, pitch 1.25mm, 4p	P1	653004114822	653004114822	1
S9014	PNP 600mW, ECB	Q1, Q2, Q3	SOT23-231	S9013	3
2N3904	NPN 600mW, ECB	Q4	TO92-123	2N904	1
2N3906	PNP 600mW, ECB	Q5	TO92-123	2N3906	1
10K	Resistor	R1, R2, R3, R4, R6, R7, R8	CN-SMD-0603	Res-SMD	7
100K	Resistor	R5	CN-SMD-0603	Res-SMD	1
22	Resistor	R9, R10, R11, R12	RES-SMD-0603	Res-SMD	4
4K7	Resistor	R13, R14	RES-SMD-0603	Res-SMD	2
240	Resistor	R15, R16	RES-SMD-0603	Res-SMD	2
10K	Resistor	R17, R18	RES-SMD-0603	Res-SMD	2
1K	Resistor	R19, R21, R23, R25, R26, R29, R31, R32, R33	RES-SMD-0101	Res-SMD	9
0	Resistor	R20	RES-SMD-0101	Res-SMD	1
1M	Resistor	R22, R27, R28, R30	Res-SMD-0101	Res-SMD	4
10R	Resistor	R24	RES-SMD-0101	Res-SMD	1
TC4427ACOA	IC, MOSFET DRIVER, LOW SIDE	U1, U3, U4, U5	SOIC127P600X175-8N	TC4427ACOA	4
4051		U2	SOT16	4051	1
SMF05CT1	SMF05C Series 7.2 V 100 W 5-Line Transient Voltage Suppressor Array - SC-88	U6, U7	SOT65P210X110-6N	SMF05CT1	2
AMS1117-3.3V	800mA Low-Dropout Linear Regulator	U8	SOT223	LM1117	1
MB85RS256	2mbit Fram With Spi Serial Inter	U9	SO8	MB85RS2MTAPNF-G-BDRE1	1
LM1117-3.3V	800mA Low-Dropout Linear Regulator	U10	SOT223	LM1117	1
32,768khz	Crystal, 32.768 KHz, -40 to 85 degC, 3.2 x 1.5 x 0.9 mm SMD	X1	XT2-32.768KHz-2_V	XT2	1
25MHZ	Crystal 20MHz A.A.±20ppm (10l) A.A.±30ppm (Stability) 18pf FUND 800hm 4-Pin Mini-CSMD 1/R	Y1	XTAL_ABMB-25.000MHZ-B2-T	ABMB-25.000MHZ-B2-T	1