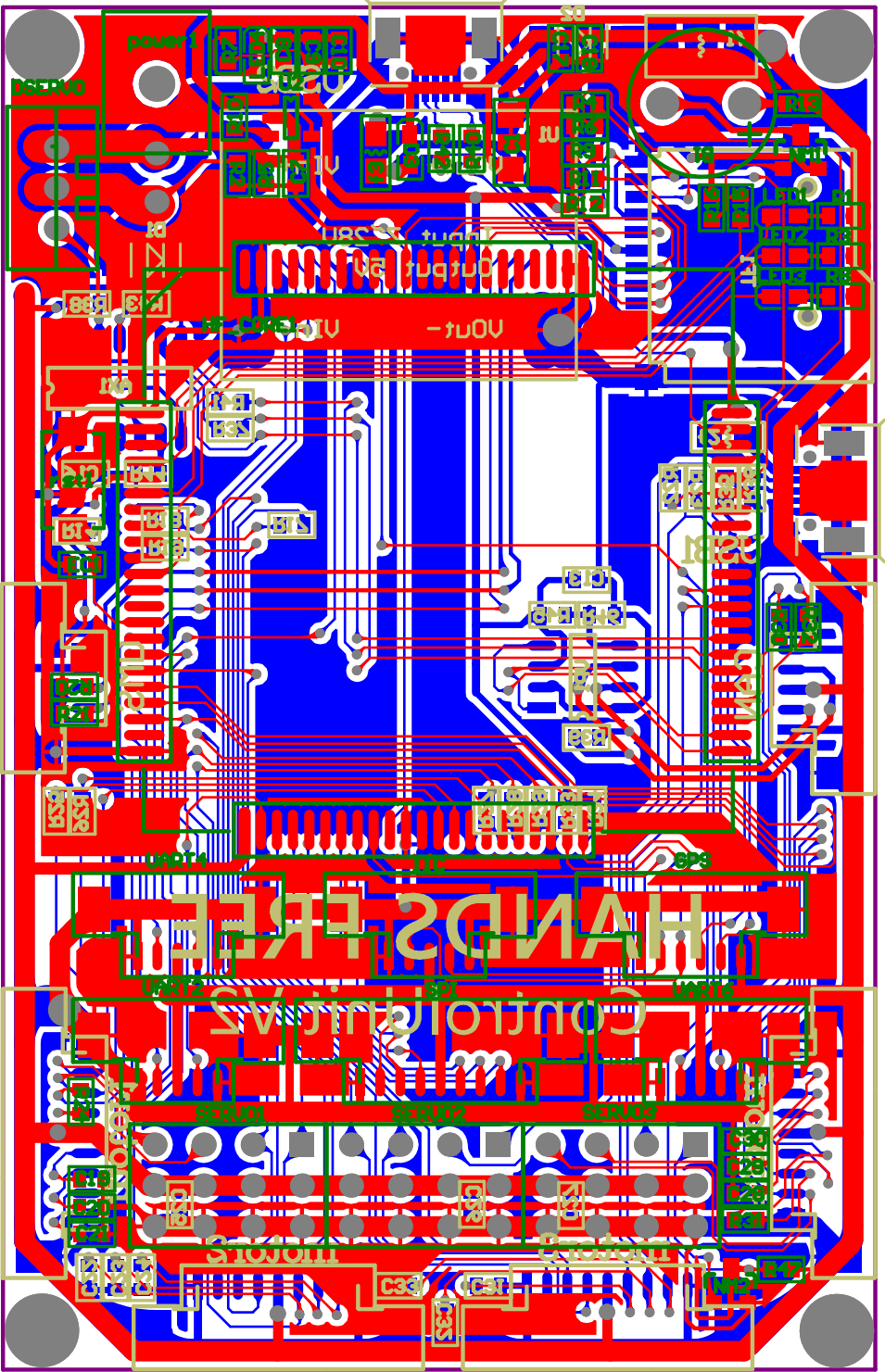


Figure 1 shows four schematic diagrams of 1T1R1C1 memristor-based crossbar arrays. Each diagram consists of a central memristor block with four pins: GND, TX, VCCU, and RX. The connections are as follows:

- (a) 1T1R1C1 array:** GND is connected to GND\_Cmp. TX is connected to 1T1R1C1\_A3. VCCU is connected to 1T1R1C1\_A2. RX is connected to GND\_Cmp.
- (b) 1T1R1C1 array:** GND is connected to GND\_Cmp. TX is connected to 1T1R1C1\_A3. VCCU is connected to 1T1R1C1\_A2. RX is connected to GND\_Cmp.
- (c) 1T1R1C1 array:** GND is connected to GND\_Cmp. TX is connected to 1T1R1C1\_A3. VCCU is connected to 1T1R1C1\_A2. RX is connected to GND\_Cmp.
- (d) 1T1R1C1 array:** GND is connected to GND\_Cmp. TX is connected to 1T1R1C1\_A3. VCCU is connected to 1T1R1C1\_A2. RX is connected to GND\_Cmp.

Title		
Size	Number	Revision
A1		
Date	2016-0-23	State of
File	Embedded data: HANDS FREE Communication? Schlöb	



Bill of Materials

<Parameter Title not found>

Source Data From: HANDS\_FREE\_ControlUnit\_V2.PrjPCB  
Project: HANDS\_FREE\_ControlUnit\_V2.PrjPCB  
Variant: None

Creation Date: 2016/8/23 15:56:38  
Print Date: 42605 42605.66445

Footprint	Comment	LibRef	Designator	Description	Quantity
CHP_SOP_4P	CHP_74HC126	CHP_74HC126	AX1	4路三态门缓冲器	1
ELE_蜂鸣器	ELE_蜂鸣器	ELE_蜂鸣器	B1	直插蜂鸣器9mm	1
D_9*5.5	9*5.5 mm				1
ELE_1206	47uf	Cap	C1		1
ELE_0603_P	10uf	ELE_Standard_Cap10uf	C7, C13, C16, C17, C25, C26, C27, EC1	贴片电容10uf 0603, 贴片电容100pf 0603	8
		ELE_Standard_Cap100pf			
ELE_0603_P	10nf	Cap	C8		1
ELE_0603_P	22uf	Cap	C9		1
ELE_0603_P	10.1uf	Cap	C10		1
ELE_0603_P	1uf	ELE_Standard_Cap1uf	C18	贴片电容1uf 0603	1
ELE_0603_P	100pf	ELE_Standard_Cap100pf	C19, C20, C21, C22, C23, C24, C28, C2	贴片电容100pf 0603	12
			C30, C31, C32, C33		
HDR_Molex_PH_1.25_5P	HANDS_FREE_MU	HANDS_FREE_MU	CAN		2
ELE_D1206	SS34	ELE_Standard_Diode_1206	D1, D2	贴片二极管SS34/SS54	1
ELE_SOD-323	1N5819	ELE_Standard_Diode_SOD323	D3	贴片二极管SOD323	1
HDR_数字舵机接口_D	HDR_Header_13	HDR_Header_13	DSERVO		1
ELE_FUZE_812	1812/3A	ELE_Standard_Fuze_1812/3A	f1	贴片保险丝1812 3A	1
ELE_FUZE_805	0805/500mA	ELE_Standard_Fuze_0805/500mA	f2, f3	贴片保险丝0805 500mA	2
HDR_Molex_PH_1.25_6P	HANDS_FREE_GPS	HANDS_FREE_GPS	GPS		1
MDE_HF_COMDE_HF_CORE1	MDE_HF_CORE1	MDE_HF_CORE1	HF_CORE1	HANDS FREE核心板代	1
HDR_Molex_PH_1.25_5P	HANDS_FREE_IC	HANDS_FREE_IC	IIC		1
ELE_0603贴片_P	ELE_LED	ELE_LED	LED1, LED2, LED3	发光二极管0603	3
ELE_0603贴片_P	Led_sp	Led_sp	LED4		1
HDR_Molex_PH_1.25_9P	Motor io header	HANDS_FREE_MOTOR	motor1, motor2, motor3, motor4	贴片molex1.25间距9P接口	4
CHP_SOT23_P_3P	AO3400	ELE_NMOS_1	NM1, NM2	贴片NMOS管 SOT23	2
HDR_MOLEX_CANMX3.0_DH_2P	HDR_Header_Power_2P	HDR_Header_Power_2P	power1		1
ELE_0603_P	10K	ELE_Standard_R1K, ELE_Standard_R10K, ELE_Standard_R50R	R1, R2, R3, R4, R6, R8, R9, R11, R12, R14, R16, R20, R21, R33, R34, R38, R44, R47	贴片电阻10K 0603, 贴片电阻10K 0603, 贴片	19
ELE_0603_P	1K	ELE_Standard_R50R, ELE_Standard_R10K, ELE_Standard_R50R	R5, R7, R10, R45, R46	贴片电阻10K 0603, 贴片电阻50K 0603	5
ELE_0603_P	50R	ELE_Standard_R10K, ELE_Standard_R50R	R13, R15, R17, R18, R19, R22, R23, R25, R26, R27, R28, R29, R30, R31, R33, R35, R36, R37, R40, R41, R42	贴片电阻10K 0603, 贴片电阻50K 0603	22
ELE_0603_P	120R	ELE_Standard_R120R	R39	贴片电阻120K 0603	1
ELE_KEY_P	ELE_KEY_1	ELE_KEY_1	rst1	贴片触发开关2P	1
HDR_Header_3*4	HDR_Header_43	HDR_Header_43	SERVO1, SERVO2, SERVO3	直插三排排针	3
HDR_Molex_PH_1.25_9P	HANDS_FREE_SPI	HANDS_FREE_SPI	SPI		1
HDR_Molex_PH_1.25_4P	HANDS_FREE_SWD	HANDS_FREE_SWD	SWD		1
HDR_TFCARD_P	HDR_MicroTFCARD	HDR_MicroTFCARD	TF1		1
MDE_DM02-5.0	MDE_DM02-5.0	MDE_DM02-5.0	U1		1
CHP_SOT23_P_5P		CHP_RT9193	U2	贴片RT9193稳压芯片SOT23_5P 3.3v	1
HDR_Molex_PH_1.25_5P	HANDS_FREE_USART	HANDS_FREE_USART	UART2, UART4, UART6		3
HDR_USB_Micro2	USBMICRO	HDR_USBMINI	USB1, USB2		2
CHP_VP230_P	CHP_VP230_P	CHP_VP230_P	VP1		1

Approved	Notes