

Evaluation board circuit diagram
and implementation
< MN63Y1210A >

Ver 1.1

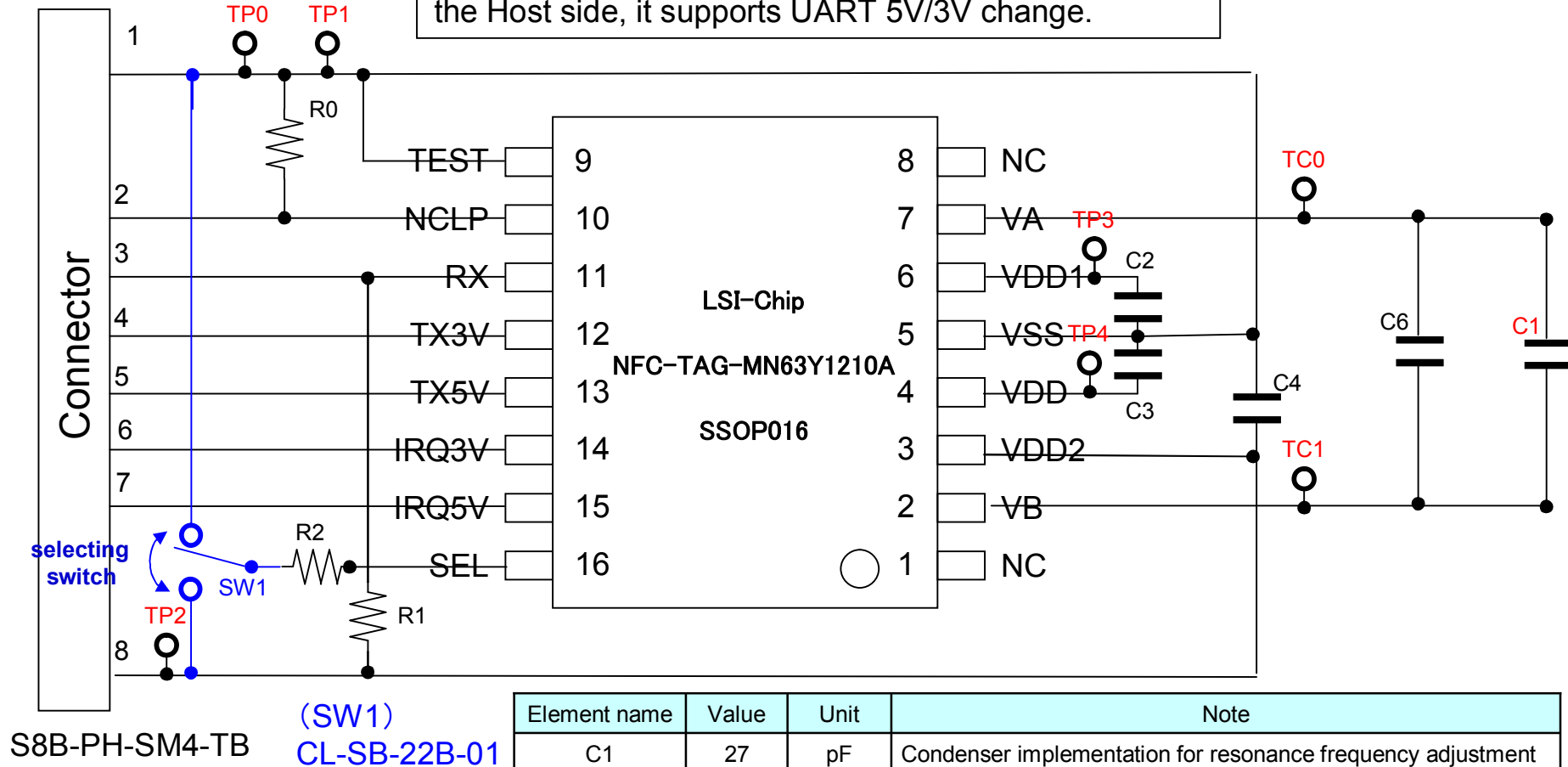
2013/10/21

Automotive & Industrial Systems Company
Panasonic Corporation

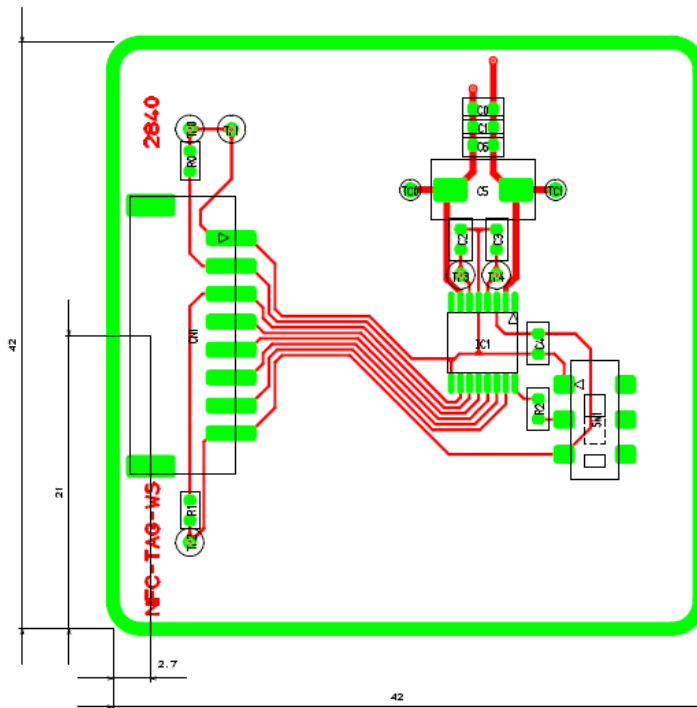
Connection diagram of the evaluation board

2013/10/21

When I perform 5V/3V change with a main board of the Host side, it supports UART 5V/3V change.



Pattern drawing



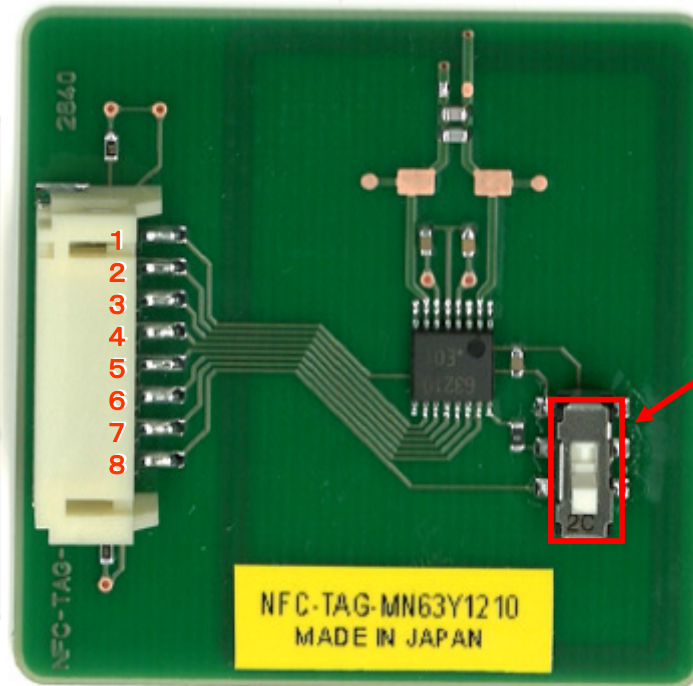
Parts list

No	Part Number	Manufacturer	Parameter	Tolerance	Rated V/ W	LxW [mm]	
IC1	NFC-TAG-MN63Y1210A	Panasonic	—	—	4.6V	6.4x5	
CN1	S8B-PH-SM4-TB	JST	—	—	100V	19.9x8.6	
TP0	Unconnected Pin	—	—	—	—	—	
TP1	Unconnected Pin	—	—	—	—	—	
TP2	Unconnected Pin	—	—	—	—	—	
TP3	Unconnected Pin	—	—	—	—	—	
TP4	Unconnected Pin	—	—	—	—	—	
R0	RK73B1JTTD104J	KOA	100k Ω	$\pm 5\%$	0.1W	1.6x0.8	
R1	RK73B1JTTD104J	KOA	100k Ω	$\pm 5\%$	0.1W	1.6x0.8	
R 2	UART	RK73Z1JTTD	KOA	0~50m Ω	—	0.1W	1.6x0.8
	CLK synchronous	Unconnected Pin	—	—	—	—	—
R 3	UART	Unconnected Pin	—	—	—	—	—
	CLK synchronous	RK73Z1JTTD	KOA	0~50m Ω	—	0.1W	1.6x0.8
C0	—	—	—	—	—	—	
C1	—	—	—	—	—	—	
C2	GRM188R71E104KA01D	Murata	0.1 μ F	$\pm 10\%$	25V	1.6x0.8	
C3	GRM188R71H103KA01D	Murata	0.01 μ F	$\pm 10\%$	25V	1.6x0.8	
C4	GRM188R71E104KA01D	Murata	0.1 μ F	$\pm 10\%$	25V	1.6x0.8	
C6	GRM1885C1H331JA01D	Murata	330pF	$\pm 5\%$	50V	1.6x0.8	

The change with the expression, please reach with a switch in UART and the CLK same period.

After having changed it, please carry out an initialization of the smartphone side.

Pin Number	Terminal Name
1	VSS
2	NCLP
3	RX
4	TX3V
5	TX5V
6	IRQ3V
7	IRQ5V
8	VDD2

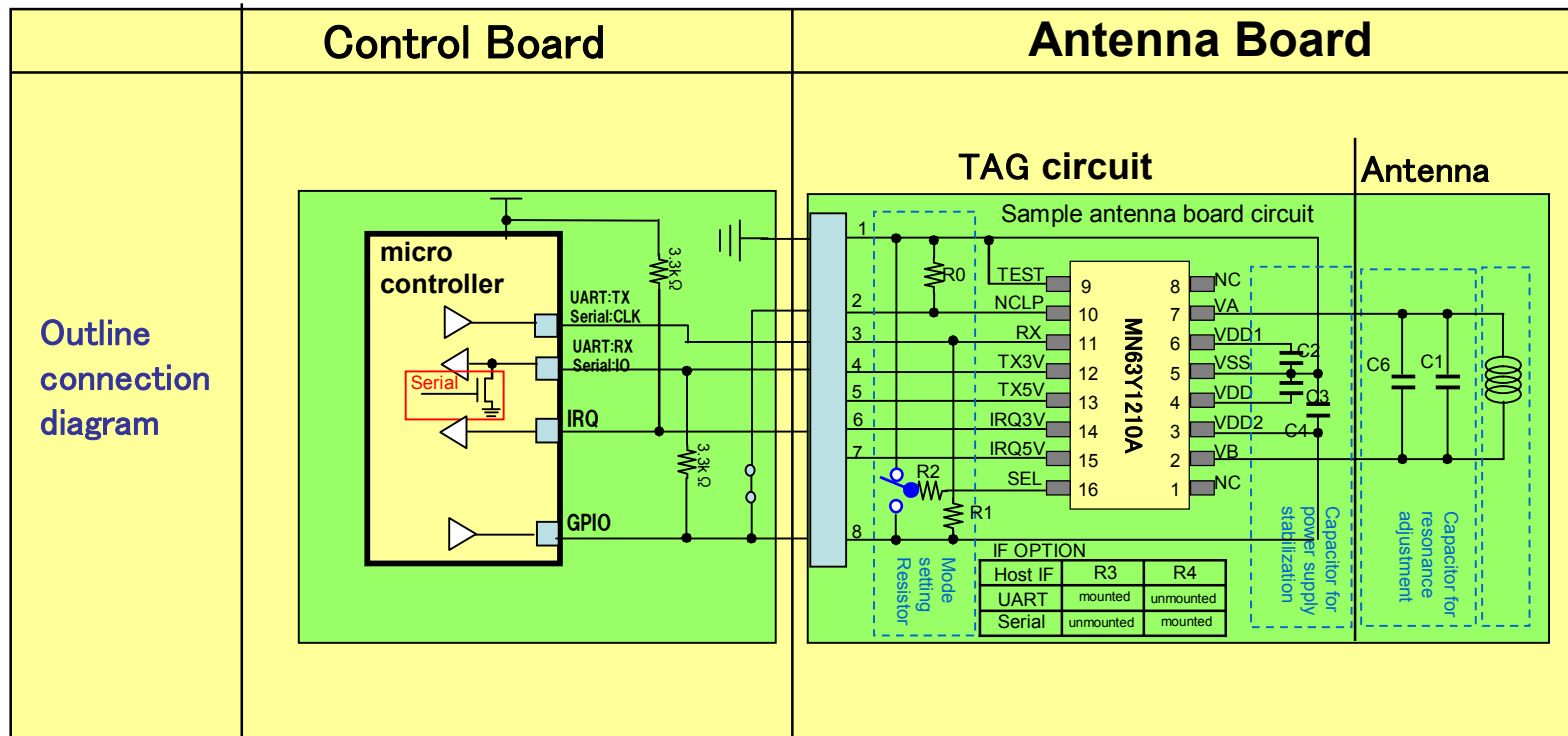
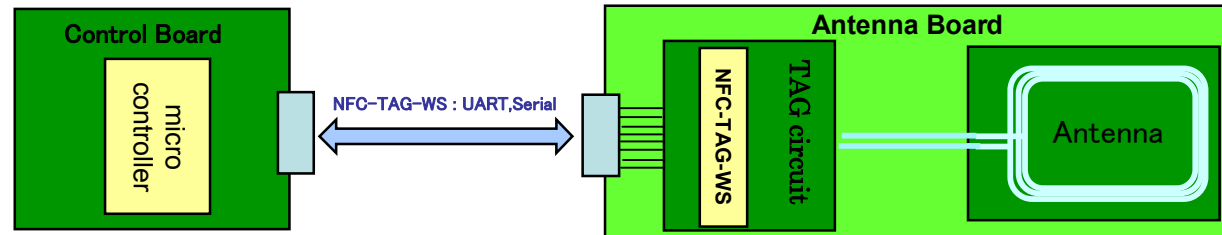


selector switch

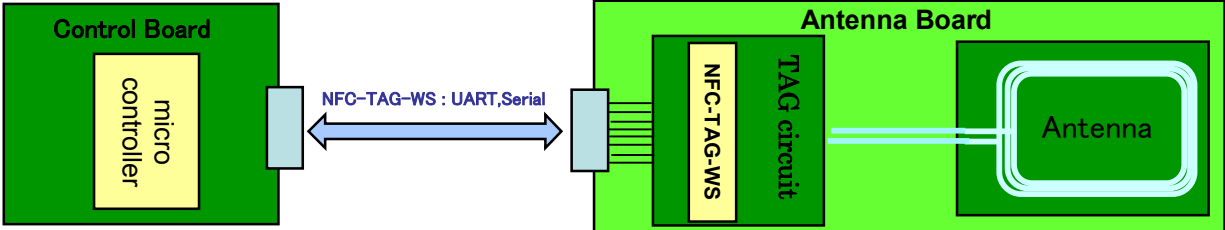
Upper : UART

Under : CLK synchronization type
(Default)

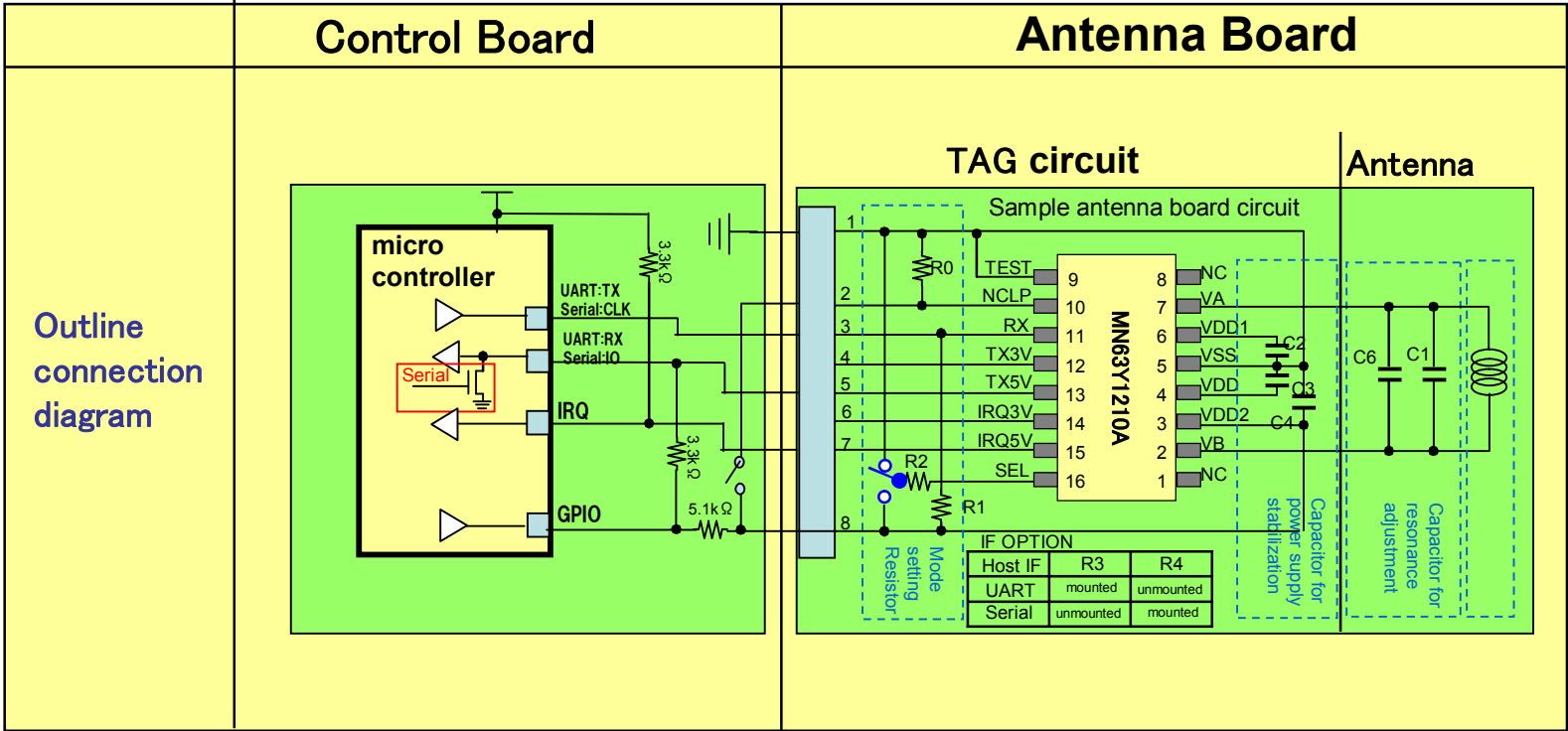
Connection example with MCU board for 3.3V



Connection example with MCU board for 5V

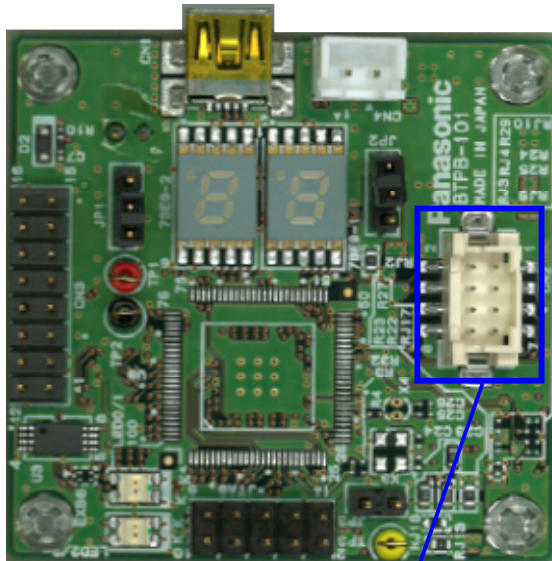


Smartphone



Connector specifications

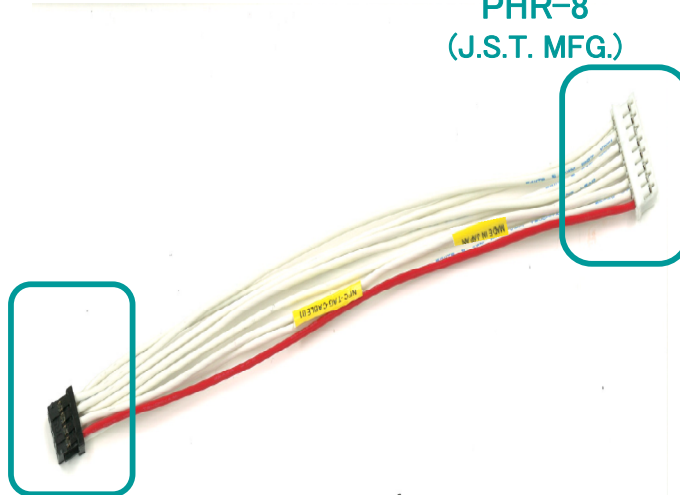
Micon Board [BTPB101-B]



DF11CZ-8DP-2V(27)
(Hirose Electric)

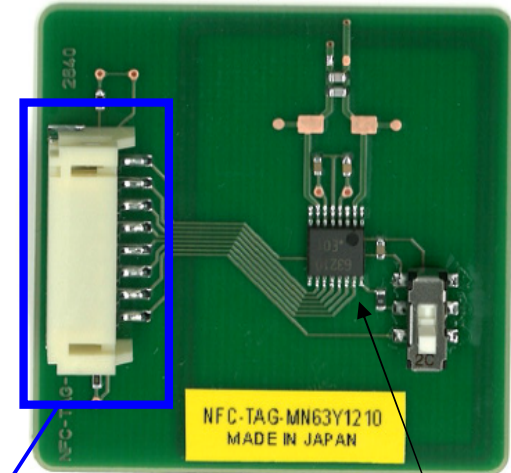
2	NCLP	VSS	1
4	TX3V	RX	3
6	IRQ3V	TX5V	5
8	GPIO	IRQ5V	7

PHR-8
(J.S.T. MFG.)



DF11-8DS-2C
(HIROSE Electric)

Antenna Board [NFC-TAG-MN63Y1210]



Mark: 6321A

S8B-PH-SM4-TB(LF)(SN)
(J.S.T. MFG)

1	VSS
2	NCLP
3	RX
4	TX3V
5	TX5V
6	IRQ3V
7	IRQ5V
8	VDD2

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