U1 ASM1117-3V3

U2 ASM1117-1V5

FB1

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 0.1uF 220uF

U5 STM32_103_LQFP48

U9 HC05 BLUETOOTH

U4 EP1C3T100

U3 EPCS4

CON1 AS

CON2 JTAG

X1 50M

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47 R48 R49 R50 R51 R52 R53 R54 R55 R56 R57 R58

Y1 8M

C30 C31 30pF

C32 0.1uF

CON3 STM32 JTAG Header 10X2

USB1 MiNi_USB

USB

P1 Wave_INPUT

P2 Wave_OUTPUT

H1 H2 H3 H4

S1 S2

U7B OPA2356

U6 ADS830

U7A OPA2356

U8A LMV358

U9B OPA2356

U8B OPA2356

Q1 2N3904 Q2 2N3904

K1 K2

SQ1 SQ2

Rf

Vo/Vi=-Rf/R1

$$Vo=\frac{Vref * Rf}{2^7 * R}\ (D7*2^7+D6*2^6+....+D0*2^0)$$

Vref=IOHigh=3.3V

D0 D1 D2 D3

D4 D5 D6 D7

GAIN1	GAIN2	Vo/Vi
0	0	1/10
0	1	1/5
1	0	1/1
1	1	2/1

Title		
Size A2	Number	Revision
Date: 2017/8/6		Sheet of
File: E:\	V2\cs\CANSAI.SCHDOC	Drawn By: