VCC_5V   VCC_3V3   R18 0   U3A

U4   VIN VOUT   VSS   CE

C1 1uF 25V   C2 1uF 25V

REGUL_3V3 1830952

GND

VDD 1 / 24 / 36 / 48   NRST 7   NRST
BOOT0 44   BOOT0
VDDA 9
PF0 - OSCIN 5   OSCIN
PF1 - OSCOUT 6   OSCOUT
VSS 23 / 35 / 47 / 8
VSSA

RD421-006A
STM32F070C6T6

U3B
PA0 10   USART2_CTS
PA1 11   USART2_RTS
PA2 12   USART2_TX
PA3 13   USART2_RX
PA4 14   ADC_IN4
PA5 15   ADC_IN5
PA6 16   ADC_IN6
PA7 17   ADC_IN7
PA8 29   PT3
PA9 30   PT4
PA10 31
PA11 32   USB_N
PA12 33   USB_P
PA13 34   SWDIO
PA14 37   SWDCLK
PA15 38   SWITCH   PT10

RD421-006A
STM32F070C6T6

U3C
PB0 18   ADC_IN8
PB1 19   PT1
PB2 20   PT2
PB3 39   LED_1
PB4 40   LED_2
PB5 41   LED_3
PB6 42   LED_4
PB7 43   LED_5
PB8 45   R19   I2C1_SCL
PB9 46   R20 0   I2C1_SDA
PB10 21   PT5
PB11 22   PT6
PC13 2   PT7

PT8 PT9

RD421-006A
STM32F070C6T6

VCC_3V3   R2 4.7K   R3 4.7K

NRST   R1 10K   VCC_3V3

CN1 M20-9990246   C3 0.1uF 16V

GND GND

J1
VCC 1
D- 2   R4 0   USB_N
D+ 3   R5 0   USB_P
ID 4
GND 5

609-4050-1-ND

VCC_5V

GND

OSCIN 1   Q1   2 OSCOUT
C9 22pF 25V   Quartz_16MHz 2509028   C10 22pF 25V

GND GND

VCC_3V3
C4 16V 4.7uF   C5 0.1uF 16V   C6 0.1uF 16V   C7 0.1uF 16V   C8 0.1uF 16V
GND GND GND GND GND

PT11 PT12 PT13 PT14 PT15

J2 Pad_1X5
ADC_IN4 5
ADC_IN5 4
ADC_IN6 3
ADC_IN7 2
ADC_IN8 1

C11 16V 10nF   C12 16V 10nF   C13 16V 10nF   C14 16V 10nF   C15 16V 10nF   R10 10K   R6 10K   R7 10K   R8 10K   R9 10K

GND GND GND GND GND   GND GND GND GND GND

VCC_3V3

M1 M2
mire mire
M3
mire

R11 100k   CN3 M20-9990246
BOOT0
R12 100k   CN4 M20-9990246

GND

LED_1 LED_2 LED_3 LED_4 LED_5

R13 330   R14 330   R15 330   R16 330   R17 330

LED1 LED2 LED3 LED4 LED5

GND

VCC_3V3   R22 0

J3
5
4
3
2
1
Pad_1X5

C19 0.1uF 16V   C20 0.1uF 16V
GND GND

VCC_3V3

U1 L3GD20HTR
SCL/SPC 2   VDD 16
SDA/SDI/SDO 3   VDD_io 1
SDO/SA0 4   RES 15
CS 5
DEN 8
RES 9   DRDY/INT2 6
RES 10   INT1 7
RES 11   Cap 14
GND 12
GND 13

I2C1_SCL   I2C1_SDA

GND

R21 0

C16 0.1uF 16V   C17 0.1uF 16V
GND GND

C21 50V 10nF
GND

VCC_FTDI

J4
USART2_CTS 6
USART2_TX 5
USART2_RX 4
3
USART2_RTS 2
1
HE10_2.54_1X6

GND

VCC_3V3   U2 ADXL345BCCZ
ALTADDR 12   VDD I/O 1
SDA 13   VS 6
SCL 14
CS 7
INT2 9   RES 11
INT1 8   RES 3
NC 10   GND 5 / 4 / 2

I2C1_SDA   I2C1_SCL

GND

ADXL345BCCZ
ADXL345BCCZ-RL7TR-ND

VCC_3V3   CN2 TC2030-IDC
NRST   R23 0   SWDIO 1 / VCC
2 / SWDIO/TMS
3 / nRESET
SWDCLK 4 / SWCLK/TCK
5 / GND
6 / SWO/TDO

GND

Title			
Size A4	Number		Revision
Date:	12/07/2017		Sheet of
File:	F:\Documents\..\Handmouse.SchDoc		Drawn By:

J2 J3

J1

IW M3

CN2 C1 C2

R20 R19 R18

27,40

CN1

J4

CN4

R13 R14 R15 R16 R17

LED1 LED2 LED3 LED4 LED5

CN3

Board S