

DEVELOPMENT BOARD (NEW)

+5V R3 33 VREF = 4.096V

U1
LM4040

USB_POWER

U2

VDD VDD
OSC2/CLKOUT
RA0/AN0
RA1/AN1
RA2/AN2/VREF-/CVREF
RA3/AN3/VREF+
RA4/T0CK1C1OUT
RA5/AN4/SS/HLVDIN/C2OUT
RB0/INT0/FLT0/AN12
RB1/INT1/AN10
RB2/INT2/AN8
RB3/AN9/CCP2
RB4/KBI0/AN11
RB5/KBI1/PGM
RB6/KBI2/PGC
RB7/KBI3/PGD
RC0/T1OSO/T13CKI
RC1/T1OSI/CCP2
RC2/CCP1/P1A
RC3/SCK/SCL
RC4/SDI/SDA
RC5/SDO
RC6/TX/CK
RC7/RX/DT
RD0/PSP0
RD1/PSP1
RD2/PSP2
RD3/PSP3
RD4/PSP4
RD5/PSP5/P1B
RD6/PSP6/P1C
RD7/PSP7/P1D
RE0/RD/AN5
RE1/WR/AN6
RE2/CS/AN7
PIC18F4620

USB_POWER

JP2
1
2
3
4
5
6
HEADER 6

1 MCLR/Vpp
13 OSC1/CLKIN/RA7

31 Vss
12 Vss

+5V R2 33K 1%
PR1 PHOTO_RESISTOR

+5V R1 100
BZ1 BUZZER

Q1 2N3904
or 2N2222

+5V 1K R4

FAN1

PWM / BLUE 4 FAN TACH / GREEN 2

JP1
8 GND / BLACK
7 +5V
6
5
4
3
2
1
HEADER 8

DS3231 BOARD
JP3
1
2
3
4
5
6
HEADER 6

DS1621 BOARD
JP4
1
2
3
4
5
6
7
8
HEADER 8

RA4 PORTA.5 RTC_ALARM#
FANEN_LED
RB0 INT0 SW1 PUSHBUTTON
RB1 INT1 SW2 PUSHBUTTON
RB2 PORTB.3 INT2 SW3 PUSHBUTTON
BUZZ_EN

LED1 LED

RINT1 220

RINT2 220

RINT3 1K

RINT4 220

RINT5 1K

RINT6 220

RINT7 220

RINT8 220

RINT9 220

RINT10 220

RINT11 220

RC0 TACH PULSE
RC2 PWM PULSE
JP8 SCK
PORTC.4 SEC_LED
JP8.SDO SDO

PORTD.0 TFT_D/C
PORTD.1 TFT_CS#
PORTD.2 TFT_RST#
RD3 SCL
RD4 SDA

PORTD.6
PORTD.7

RE0 SETUP_MODE
RE1 SETUP_SEL0
RE2 SETUP_SEL1

LED_RGB COMMON CATHODE

D2

R5 4.7K
R6 4.7K
R7 4.7K

+5V R8 4.7K
R9 4.7K

SW4 SW DIP-4