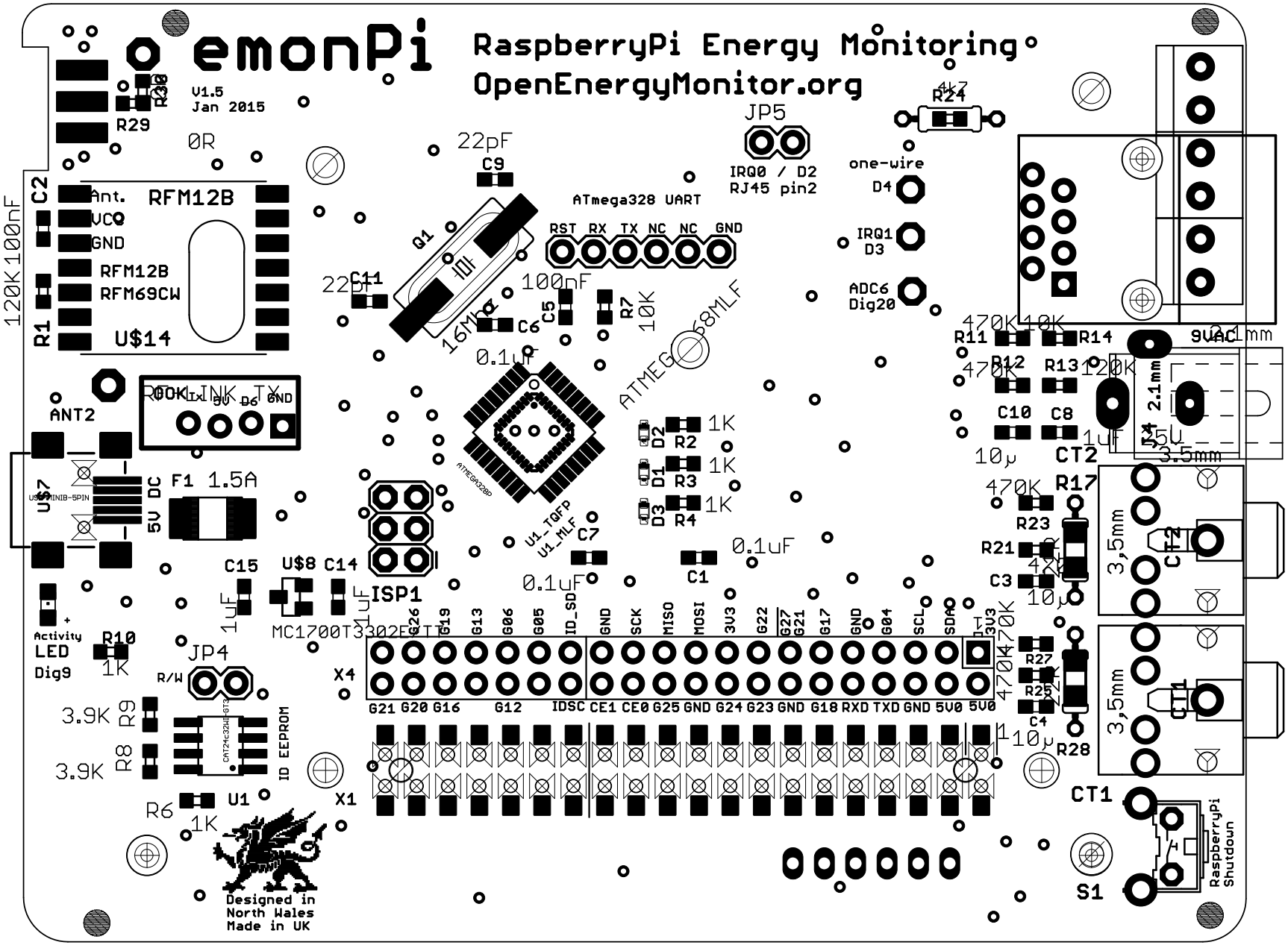
emonPi
RaspberryPi Energy Monitoring
OpenEnergyMonitor.org
V1.5
Jan 2015
RFM12B
Ant.
VCC
GND
RFM12B
RFM69CW
U$14
ANT2
ROOK LINK TX
Ix 5V D6 GND
U$7
USB-MINIB-5PIN
F1 1.5A
5V DC
Activity
LED
Dig9
R10
1K
JP4
R/W
3.9K R9
3.9K R8
CAT24C32WI-GT3
ID EEPROM
R6
1K
U1
X1
Designed in
North Wales
Made in UK
R29
R28
0R
120K 100nF
C2
R1
22pF
C9
Q1
16Mhz
22pF
C11
100nF
C5
C6
0.1uF
R7
10K
ATmega328 UART
RST RX TX NC NC GND
JP5
IRQ0 / D2
RJ45 pin2
one-wire
D4
IRQ1
D3
ADC6
Dig20
ATMEGA328P
U1_TQFP
U1_MLF
D2 R2 1K
D1 R3 1K
D3 R4 1K
C7
0.1uF
C1
0.1uF
C15
1uF
U$8
C14
1uF
MC1700T3302E
ISP1
X4
G26 G19 G13 G06 G05 ID_SD GND SCK MISO MOSI 3V3 G22 G27 G21 G17 GND G04 SCL SDA 3V3
G21 G20 G16 G12 IDSC CE1 CE0 G25 GND G24 G23 GND G18 RXD TXD GND 5V0 5V0
R24
4k7
470K 10K
R11
R14
R12
470K
R13
120K
C10
10µ
C8
1uF
CT2
R17
470K
R23
R21
470K
C3
10µ
470K
R27
R25
C4
10µ
R28
CT1
S1
RaspberryPi
Shutdown
9VAC
2.1mm
J4
2.1mm
3,5mm
CT2
3,5mm
CT1