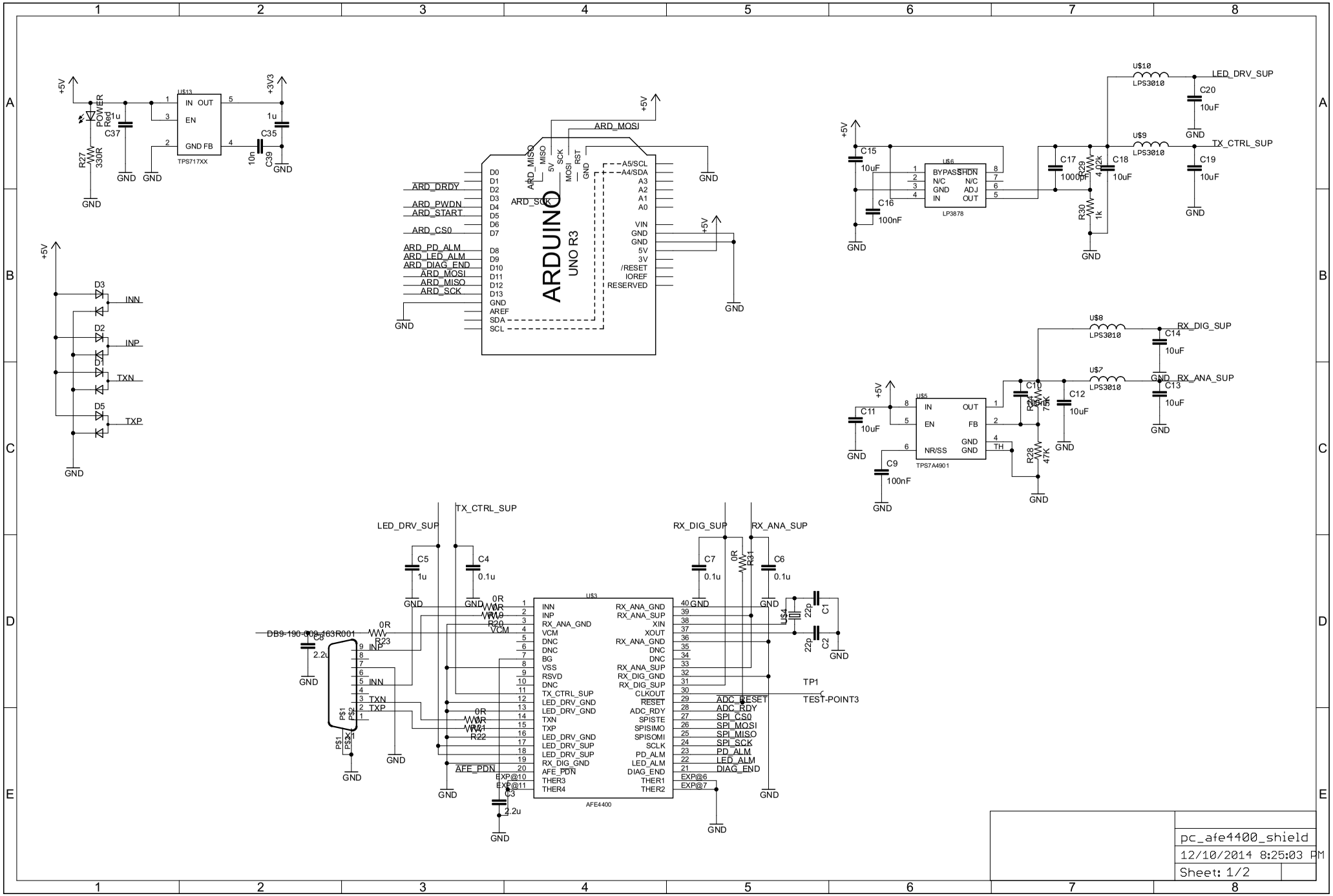
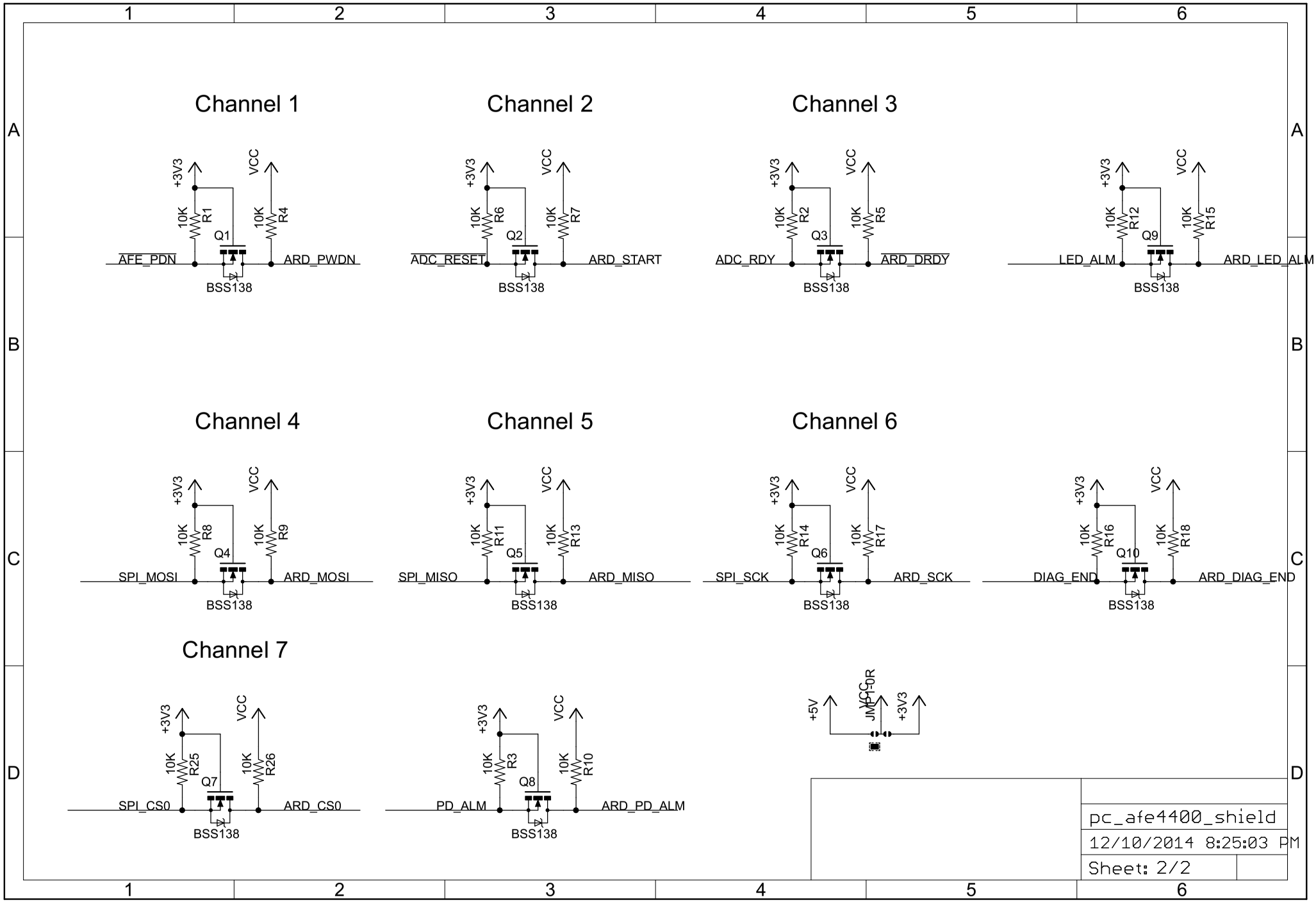

U$13
TPS717XX
IN OUT
EN
GND FB
POWER Red
C37 1u
R27 330R
C35 1u
C39 10n
+5V
+3V3
GND
ARDUINO
UNO R3
ARD_MOSI
ARD_MISO
ARD_SCK
ARD_DRDY
ARD_PWDN
ARD_START
ARD_CS0
ARD_PD_ALM
ARD_LED_ALM
ARD_DIAG_END
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
AREF
SDA
SCL
A5/SCL
A4/SDA
A3
A2
A1
A0
VIN
5V
3V
/RESET
IOREF
RESERVED
U$6
LP3878
BYPASS
SHDN
N/C
GND
ADJ
IN
OUT
C15 10uF
C16 100nF
C17 1000pF
R29 4.22k
R30 1k
C18 10uF
U$10
LPS3010
LED_DRV_SUP
C20 10uF
U$9
TX_CTRL_SUP
C19 10uF
D3
D2
D1
D5
INN
INP
TXN
TXP
U$8
RX_DIG_SUP
C14 10uF
U$7
RX_ANA_SUP
C13 10uF
U$5
TPS7A4901
EN
NR/SS
FB
TH
C11 10uF
C9 100nF
C10 1nF
R27 75K
C12 10uF
R28 47K
DB9-190-009-163R001
C8 2.2u
R23 0R
R22 0R
R20 0R
R21 0R
R31 0R
C5 1u
C4 0.1u
C7 0.1u
C6 0.1u
U$3
AFE4400
INN
INP
RX_ANA_GND
VCM
DNC
BG
VSS
RSVD
TX_CTRL_SUP
LED_DRV_GND
LED_DRV_SUP
RX_DIG_GND
AFE_PDN
THER3
THER4
RX_ANA_SUP
XIN
XOUT
RX_DIG_SUP
CLKOUT
RESET
ADC_RDY
SPISTE
SPISIMO
SPISOMI
SCLK
PD_ALM
LED_ALM
DIAG_END
THER1
THER2
EXP@10
EXP@11
EXP@6
EXP@7
C3 2.2u
U$4 22p
C1 22p
C2
TP1
TEST-POINT3
ADC_RESET
SPI_CS0
SPI_MOSI
SPI_MISO
SPI_SCK
PS1
PS2
PS3
PS4
pc_afe4400_shield
12/10/2014 8:25:03 PM
Sheet: 1/2


Channel 1
+3V3
VCC
10K
R1
10K
R4
Q1
AFE_PDN
ARD_PWDN
BSS138
Channel 2
R6
R7
Q2
ADC_RESET
ARD_START
Channel 3
R2
R5
Q3
ADC_RDY
ARD_DRDY
R12
R15
Q9
LED_ALM
ARD_LED_ALM
Channel 4
R8
R9
Q4
SPI_MOSI
ARD_MOSI
Channel 5
R11
R13
Q5
SPI_MISO
ARD_MISO
Channel 6
R14
R17
Q6
SPI_SCK
ARD_SCK
R16
R18
Q10
DIAG_END
ARD_DIAG_END
Channel 7
R25
R26
Q7
SPI_CS0
ARD_CS0
R3
R10
Q8
PD_ALM
ARD_PD_ALM
+5V
JMP1
0R
pc_afe4400_shield
12/10/2014 8:25:03 PM
Sheet: 2/2