ADC

3V3
R10 1k
R13 470R
AN0
R14 33k
RT1 1K-NTC
C7 1N
AN1
AN2
AN3
GND

U1 AD7995
8 VDD
3 VIN0
4 VIN1
5 VIN2
6 VIN3/VREF
1 SCL
2 SDA
7 GND

3V3
R2 4k7
R3 4k7
I2C SCL
I2C SDA

3V3
C8 10U
C6 100N
GND

UART

3V3
U2 SP3220
UART TX — 11 T1IN
UART RX — 9 R1OUT
UART EN
1 EN_N
16 SHDN_N
2 C1+
4 C1-
5 C2+
6 C2-
13 T1OUT — RS232 TX
8 R1IN — RS232 RX
15 VCC
14 GND
7 V+
3 V- — DTE/DCE
10 NC
12 NC

TTL RS232

R1 10k
GND

C2 100N
C5 100N
C4 100N
C3 100N

3V3
C1 100N
GND

R12 330R

J1 1734351-1
5
4
3
2
1
9
8
7
6
10
11
R11 330R — DTE/DCE
GND

IO HEADERS

3V3
P2
GPIO 0 — 1   2 — GPIO 1
GPIO 2 — 3   4 — GPIO 3
5   6
GPO 0/LED0 — 7   8 — GPO 1/LED1
GPO 6/LED2 — 9   10 — GPO 7/LED3
11   12
GPO 2 — 13   14 — GPO 3
GPO 4 — 15   16 — GPO 5
17   18
19   20
5V
GND   GND
NA

3V3
P4
UART TX — 1   2 — UART RX
I2C SDA — 3   4 — I2C SCL
5   6
BUTTONA — 7   8 — BUTTONB
GPI 0 — 9   10 — GPI 1
11   12
GPI 2 — 13   14 — GPI 3
GPI 4 — 15   16 — GPI 5
17   18
19   20
5V
GND   GND
NA

LEDS

3V3
R6 470R — LED0 GREEN — GPO 0/LED0
R7 470R — LED1 GREEN — GPO 1/LED1
R8 470R — LED2 GREEN — GPO 6/LED2
R9 470R — LED3 GREEN — GPO 7/LED3

BUTTONS

3V3
R5 10k
R4 10k
SW1 KSC421J
1A 1B   2A 2B
BUTTONA
GND
SW2 KSC421J
1A 1B   2A 2B
BUTTONB
GND

J2 PCIE_36_FINGER
3V3   5V
GPIO 0 — B1   A1
B2   A2
B3   A3
GPIO 1 — B4   A4 — GPIO 2
B5   A5 — GPIO 3
GPO 0/LED0 — B6   A6 — GPO 6/LED2
GPO 1/LED1 — B7   A7 — GPO 7/LED3
B8   A8 — I2C SDA
GPO 2 — B9   A9 — GPO 4
UART TX — B10   A10
GPO 3 — B11   A11 — GPO 5
KEY
BUTTONA — B12   A12 — GPI 5
BUTTONB — B13   A13 — GPI 4
B14   A14
UART RX — B15   A15 — I2C SCL
B16   A16 — RST_N
GPI 0 — B17   A17 — GPI 3
GPI 1 — B18   A18 — GPI 2
GND   GND

MT5 NPTH_2MM8

P3
1   2 — UART EN
3V3
NA

P5
1 — RS232 TX
2 — RS232 RX
NA

P1
3V3   5V
1 — RST_N
2 — AN1
3 — AN2
4 — AN3
5
6
7
GND
NA

MT1 PTH_M3
MT2 PTH_M3
MT3 PTH_M3
MT4 PTH_M3
PROD1 PCB FEET 6MM
PROD2 PCB FEET 6MM
PROD3 PCB FEET 6MM
PROD4 PCB FEET 6MM
GND

FM1 FIDUCIAL
FM2 FIDUCIAL
FM3 FIDUCIAL

Project Name
XIPCB-002-GPIO.PrjPcb

Size	Sheet Name	Rev
A3	XA-SK-GPIO	1V0

Date 20/12/2012   Sheet 1 of 1

BOM

XA-SK-GPIO

Source Data From: **XIPCB-002-GPIO.PrjPcb**

Project: **XIPCB-002-GPIO.PrjPcb**

Variant: **None**

XMOS®

Report Date:	20/12/2012	11:45:12
Print Date:	20-Dec-12	11:45:16 AM

#	LibRef	Designator	Description	Quantity
1	E-01-0001	R10	RES 1k 0603 1%	1
2	E-01-0002	R1, R4, R5	RES 10k 0603 1%	3
3	E-01-0010	R11, R12	RES 330R 0603 1%	2
4	E-01-0021	R2, R3	RES 4.7k 0603 1%	2
5	E-01-0022	R6, R7, R8, R9, R13	RES 470R 0603 1%	5
6	E-01-0122	R14	RES 33k 0603 1%	1
7	E-02-0002	C1, C2, C3, C4, C5, C6	MLCC 100nF 0402 X7R 16V	6
8	E-02-0006	C8	MLCC 10uF 0603 X5R 6.3V	1
9	E-02-0061	C7	MLCC 1nF 0402 X7R 50V	1
10	E-04-0071	J1	D-Subminiature Connector, 9 pin, Male, Right Angle, US Footprint, with screw locks	1
11	E-12-0001	LED0, LED1, LED2, LED3	LED, GREEN, 0603	4
12	E-13-0118	U1	ADC, 10BIT, 4 Channel, I2C, SOT23-8	1
13	E-13-0119	U2	RS232 1 Tx/1 Rx, With Charge Pump, ESD Protected, 250kbps, 3V-5.5V, TSSOP-16	1
14	E-16-0003	SW1, SW2	Tactile Switch, Momentary, SMD, J Bend	2
15	E-18-0009	RT1	Thermistor, 1K, NTC, 0603, SMD	1
16	P-01-0011	PROD1, PROD2, PROD3, PROD4	Feet, Nylon, M3, 6mm Standoff	4

Approved   **Notes**   **36**