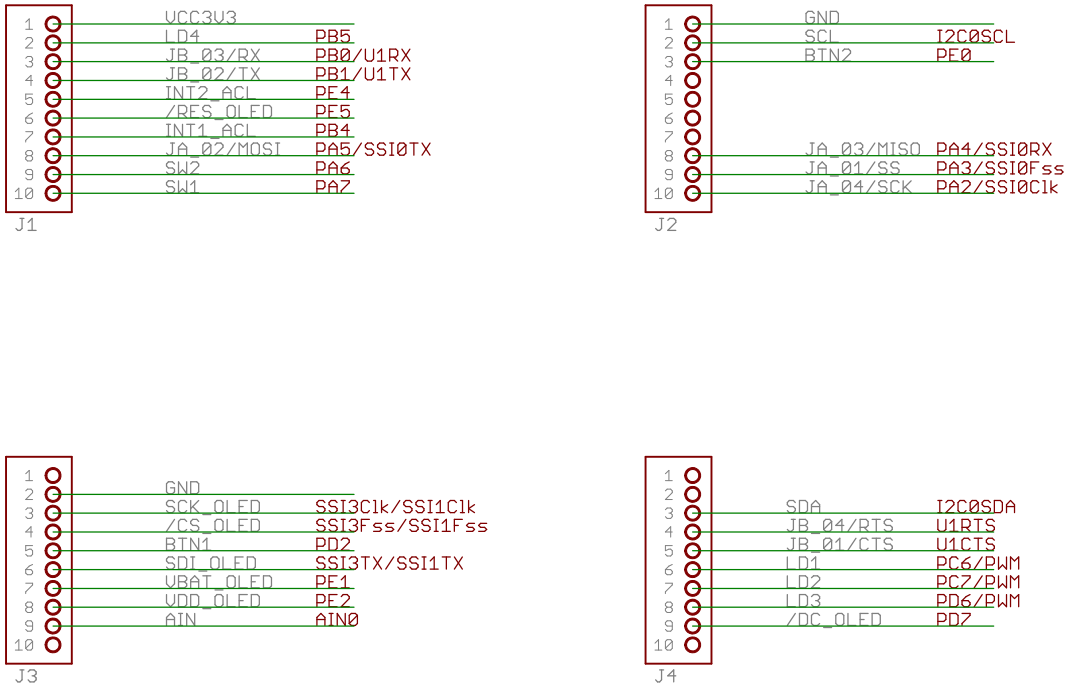

WEEE CE ROHS CHINA Digilent Inc.

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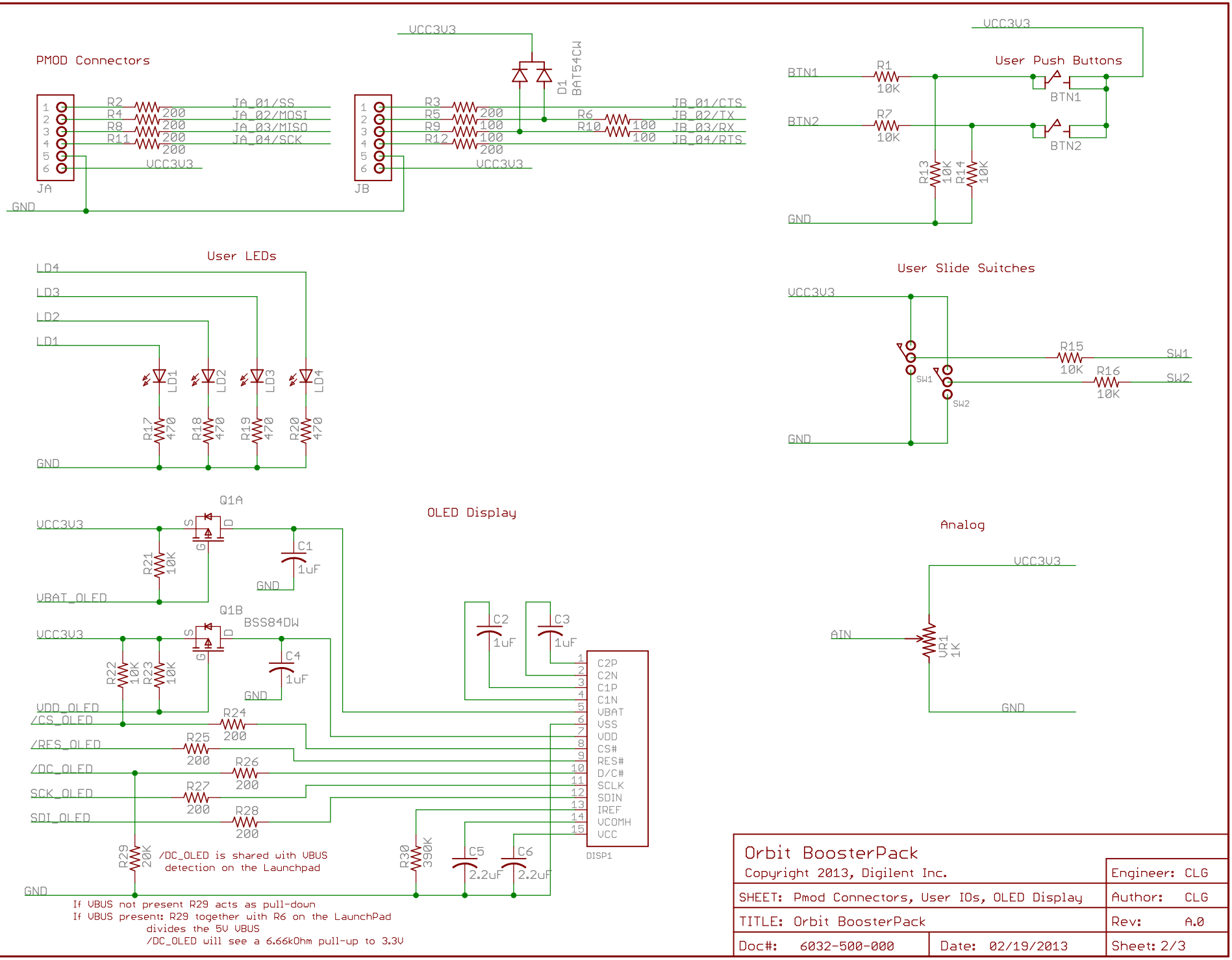
SHEET: Booster Pack Interface		Author: CLG
TITLE: Orbit BoosterPack		Rev: A.0
Doc#: 6032-500-000	Date: 02/19/2013	Sheet: 1/3


PMOD Connectors
JA
JB
VCC3V3
GND
JA_01/SS
JA_02/MOSI
JA_03/MISO
JA_04/SCK
JB_01/CTS
JB_02/TX
JB_03/RX
JB_04/RTS
D1
BAT54CW
User Push Buttons
BTN1
BTN2
User LEDs
LD1
LD2
LD3
LD4
User Slide Switches
SW1
SW2
OLED Display
Q1A
Q1B
BSS84DW
VBAT_OLED
VDD_OLED
/CS_OLED
/RES_OLED
/DC_OLED
SCK_OLED
SDI_OLED
C2P
C2N
C1P
C1N
VBAT
VSS
VDD
CS#
RES#
D/C#
SCLK
SDIN
IREF
VCOMH
VCC
DISP1
/DC_OLED is shared with VBUS
detection on the Launchpad
If VBUS not present R29 acts as pull-down
If VBUS present: R29 together with R6 on the LaunchPad
divides the 5V VBUS
/DC_OLED will see a 6.66kOhm pull-up to 3.3V
Analog
AIN
VR1
1K
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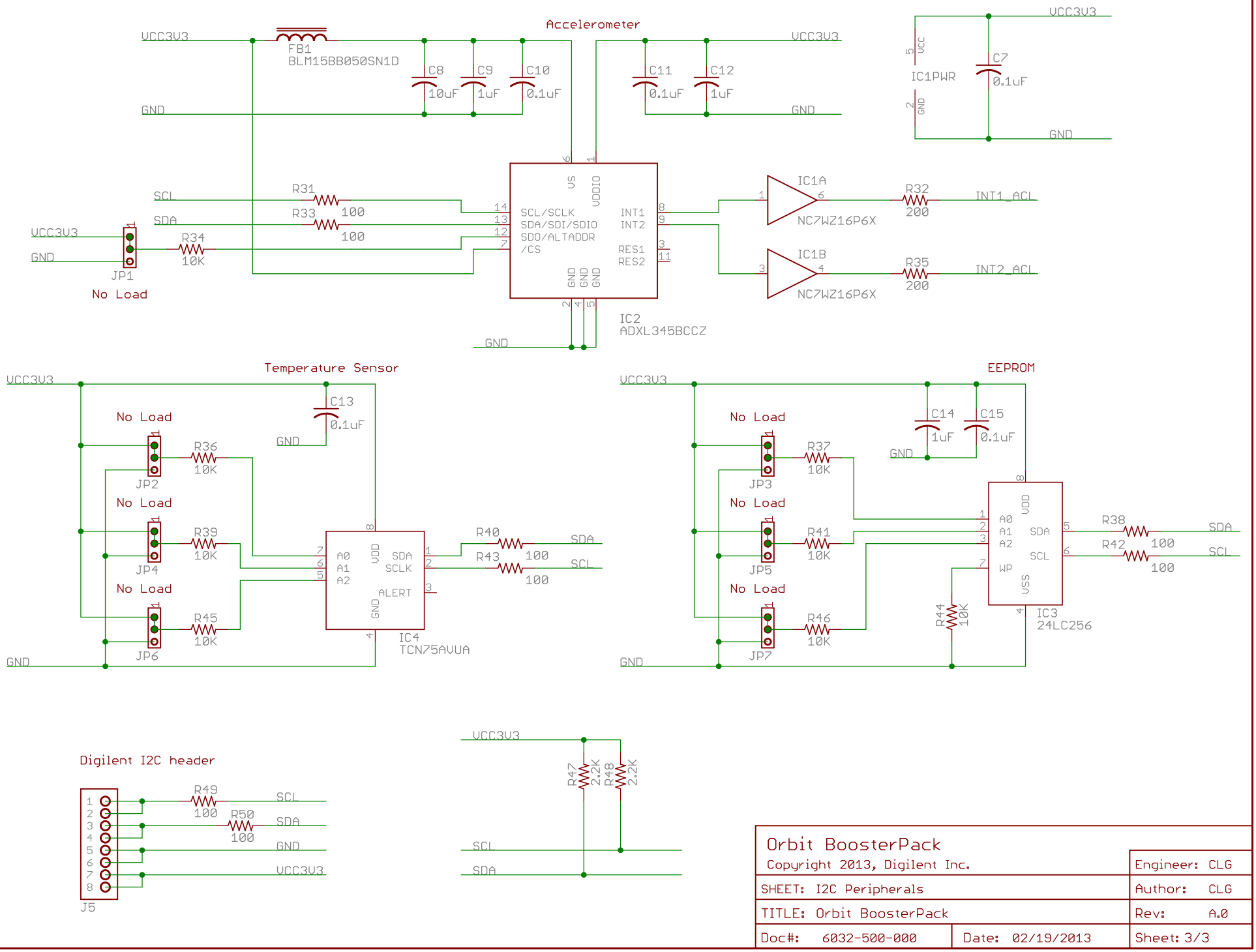
Engineer: CLG
SHEET: Pmod Connectors, User IOs, OLED Display
Author: CLG
TITLE: Orbit BoosterPack
Rev: A.0
Doc#: 6032-500-000
Date: 02/19/2013
Sheet: 2/3


Accelerometer
VCC3V3
FB1
BLM15BB050SN1D
C8
10uF
C9
1uF
C10
0.1uF
C11
0.1uF
C12
1uF
GND
IC1PWR
C7
0.1uF
SCL
SDA
R31
R33
100
R34
10K
JP1
No Load
SCL/SCLK
SDA/SDI/SDIO
SDO/ALTADDR
/CS
VS
VDDIO
INT1
INT2
RES1
RES2
IC2
ADXL345BCCZ
IC1A
IC1B
NC7WZ16P6X
R32
R35
200
INT1_ACL
INT2_ACL
Temperature Sensor
C13
0.1uF
R36
R39
R45
10K
JP2
JP4
JP6
A0
A1
A2
SDA
SCLK
ALERT
IC4
TCN75AVUA
R40
R43
EEPROM
C14
1uF
C15
0.1uF
R37
R41
R46
JP3
JP5
JP7
WP
VSS
IC3
24LC256
R44
R38
R42
Digilent I2C header
R49
R50
J5
R47
R48
2.2K
Orbit BoosterPack
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Engineer: CLG
SHEET: I2C Peripherals
Author: CLG
TITLE: Orbit BoosterPack
Rev: A.0
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Date: 02/19/2013
Sheet: 3/3