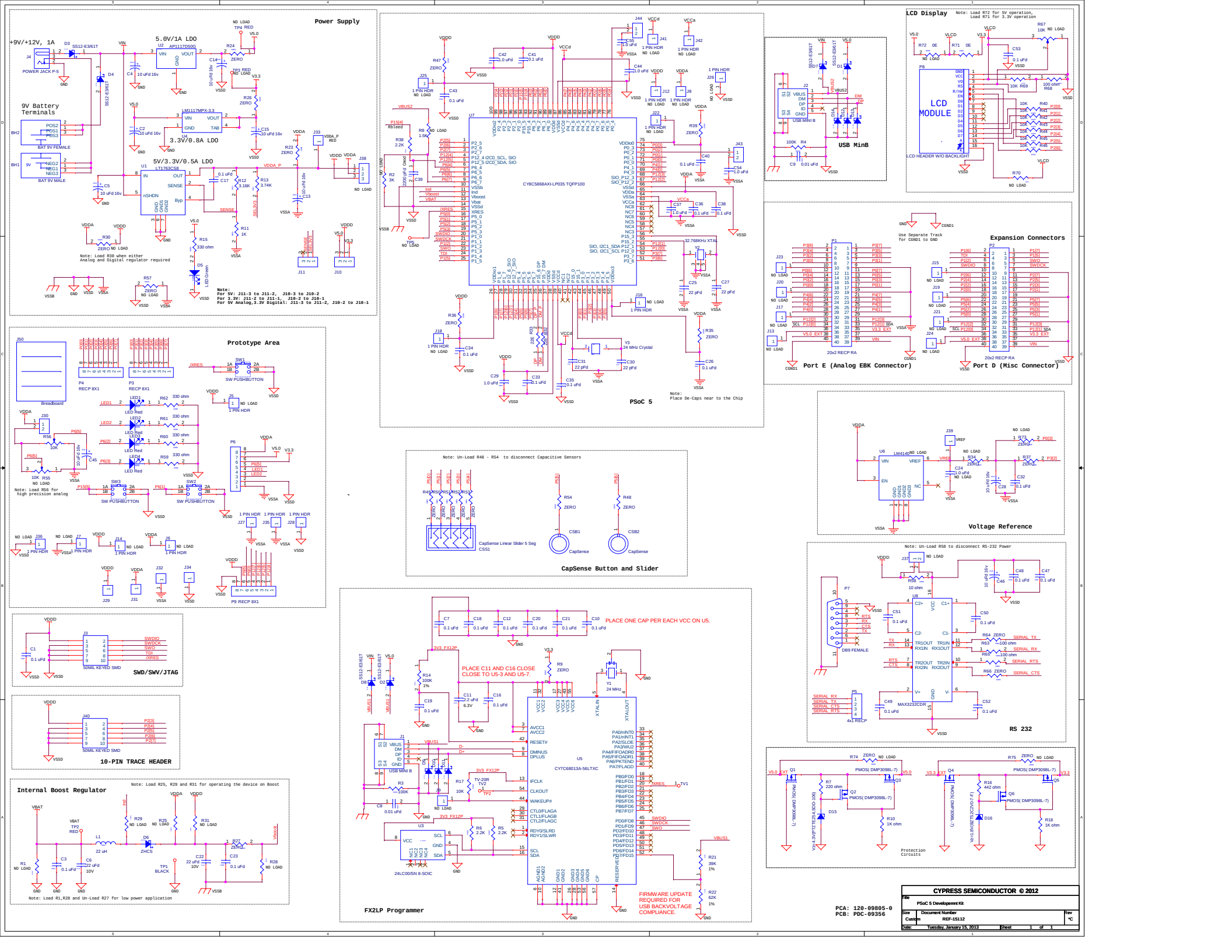
Power Supply
+9V/+12V, 1A
POWER JACK P-5
5.0V/1A LDO
AP1117D50G
9V Battery Terminals
BAT 9V FEMALE
BAT 9V MALE
LM1117MPX-3.3
3.3V/0.8A LDO
5V/3.3V/0.5A LDO
LT1763CS8
Note: Load R30 when either Analog and Digital regulator required
Note:
For 5V: J11-3 to J11-2, J10-3 to J10-2
For 3.3V: J11-2 to J11-1, J10-2 to J10-1
For 5V Analog,3.3V Digital: J11-3 to J11-2, J10-2 to J10-1
Prototype Area
Breadboard
P4 RECP 8X1
P3 RECP 8X1
SW PUSHBUTTON
LED Red
Note: Load R56 for high precision analog
P9 RECP 8X1
PSoC 5
CY8C5868AXI-LP035 TQFP100
32.768KHz XTAL
24 MHz Crystal
Note: Place De-Caps near to the Chip
LCD Display
Note: Load R72 for 5V operation, Load R71 for 3.3V operation
LCD MODULE
LCD HEADER W/O BACKLIGHT
USB MinB
USB MINI B
Expansion Connectors
Port E (Analog EBK Connector)
Port D (Misc Connector)
20x2 RECP RA
Voltage Reference
LM4140
Note: Un-Load R48 - R54 to disconnect Capacitive Sensors
CapSense Linear Slider 5 Seg
CapSense Button and Slider
Note: Un-Load R58 to disconnect RS-232 Power
DB9 FEMALE
MAX3232CDR
RS 232
SWD/SWV/JTAG
50MIL KEYED SMD
10-PIN TRACE HEADER
PLACE ONE CAP PER EACH VCC ON U5.
PLACE C11 AND C16 CLOSE CLOSE TO U5-3 AND U5-7.
CY7C68013A-56LTXC
FIRMWARE UPDATE REQUIRED FOR USB BACKVOLTAGE COMPLIANCE
24LC00/SN 8-SOIC
FX2LP Programmer
Internal Boost Regulator
Note: Load R25, R29 and R31 for operating the device on Boost
Note: Load R1,R28 and Un-Load R27 for low power application
Protection Circuits
PCA: 120-09805-0
PCB: PDC-09356
CYPRESS SEMICONDUCTOR © 2012
PSoC 5 Development Kit
Document Number
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Tuesday, January 15, 2013