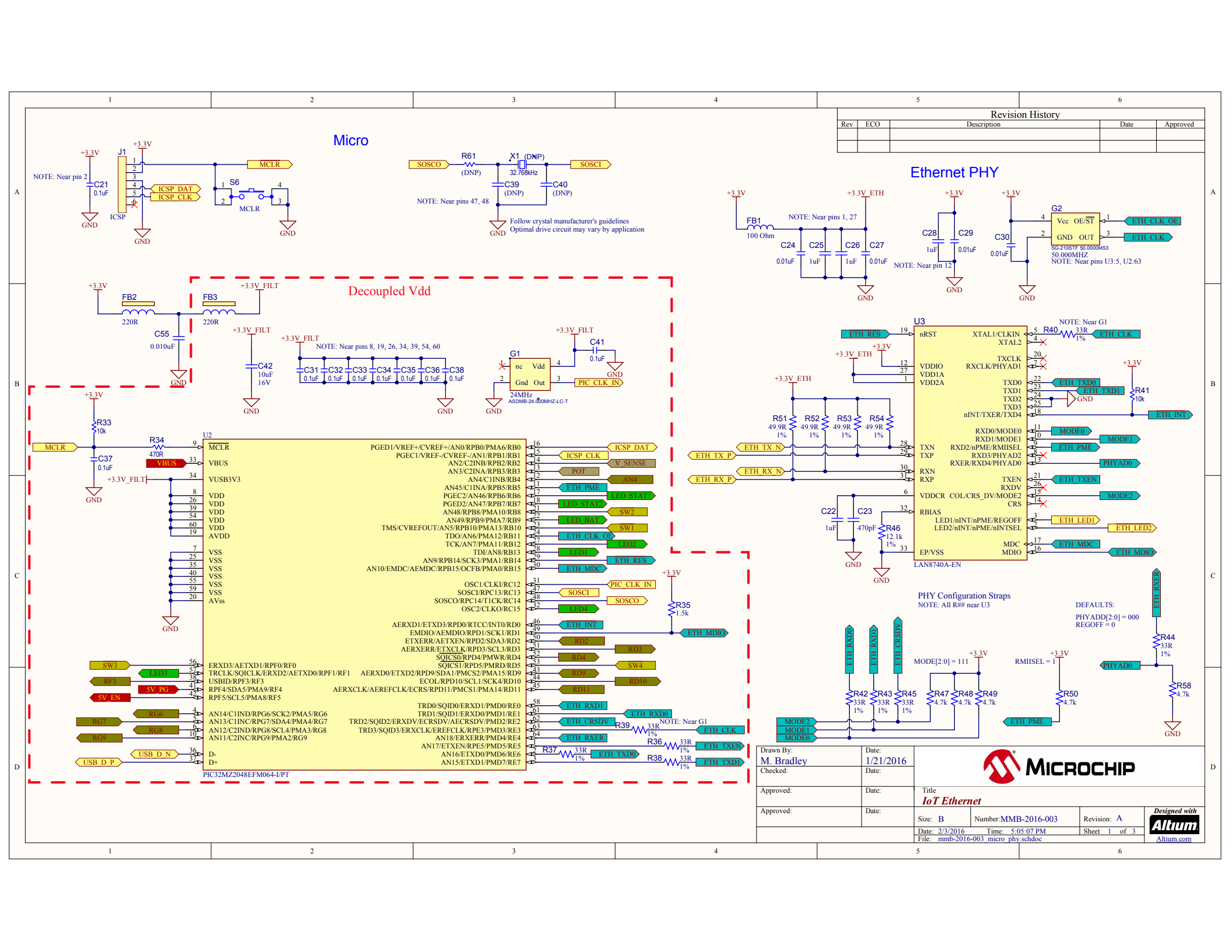
Micro
Ethernet PHY
Decoupled Vdd
Revision History
Rev
ECO
Description
Date
Approved
NOTE: Near pin 2
NOTE: Near pins 47, 48
Follow crystal manufacturer's guidelines
Optimal drive circuit may vary by application
NOTE: Near pins 1, 27
NOTE: Near pin 12
NOTE: Near pins U3:5, U2:63
NOTE: Near pins 8, 19, 26, 34, 39, 54, 60
NOTE: Near G1
PHY Configuration Straps
NOTE: All R## near U3
DEFAULTS:
PHYADD[2:0] = 000
REGOFF = 0
MODE[2:0] = 111
RMIISEL = 1
PIC32MZ2048EFM064-I/PT
LAN8740A-EN
Drawn By:
M. Bradley
Date:
1/21/2016
Checked:
Approved:
Title
IoT Ethernet
Size: B
Number:MMB-2016-003
Revision: A
Date: 2/3/2016
Time: 5:05:07 PM
Sheet 1 of 3
File: mmb-2016-003_micro_phy.schdoc
MICROCHIP
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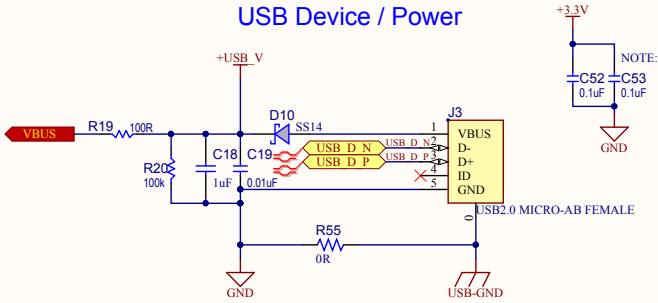
Revision History

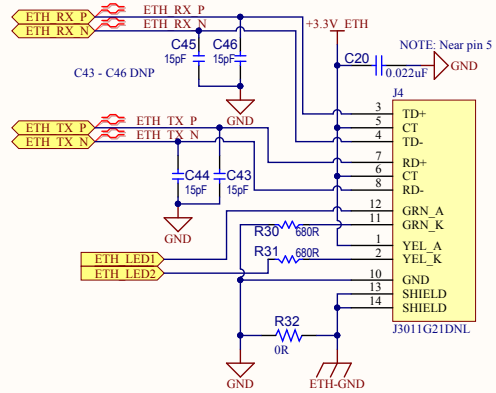
Rev	ECO	Description	Date	Approved

USB Device / Power

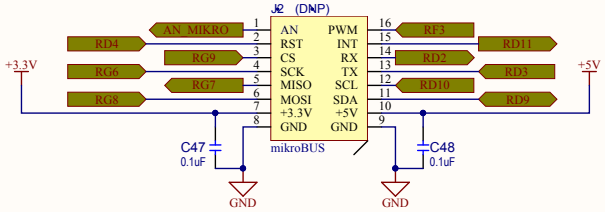


Ethernet Jack

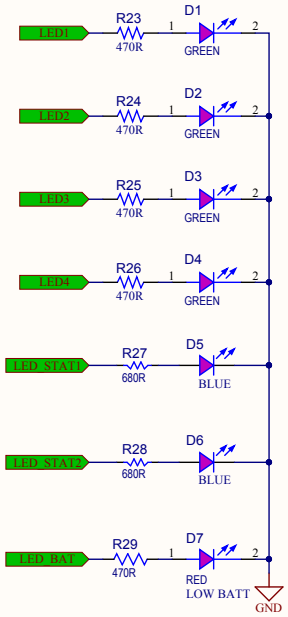
NOTE: TX/RX config requires Auto MDI-X enabled on PHY

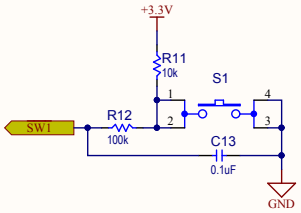


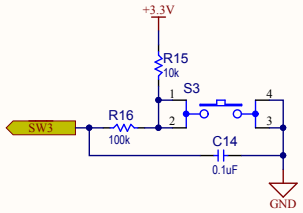
mikroBUS

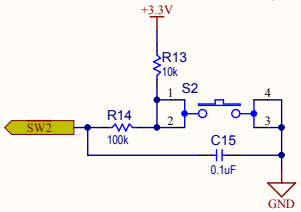


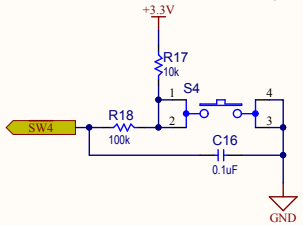
User I/O

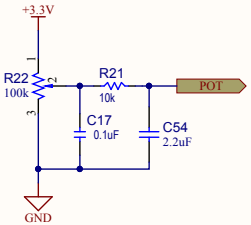












Drawn By: M. Bradley	Date: 1/21/2016	MICROCHIP
Checked:	Date:	
Approved:	Date:	Title: *IoT Ethernet*
Approved:	Date:	Size: B | Number: MMB-2016-003 | Revision: B
		Date: 2/3/2016 Time: 5:05:07 PM Sheet 2 of 3
		File: mmb-2016-003_io.schdoc

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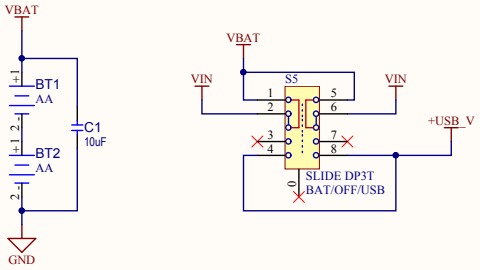
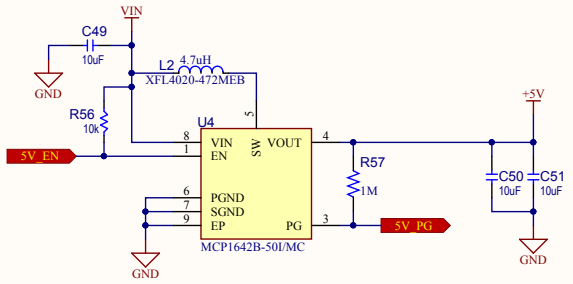
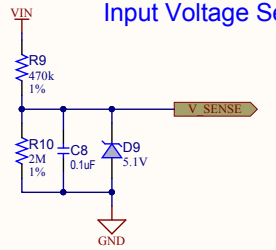
Input Power



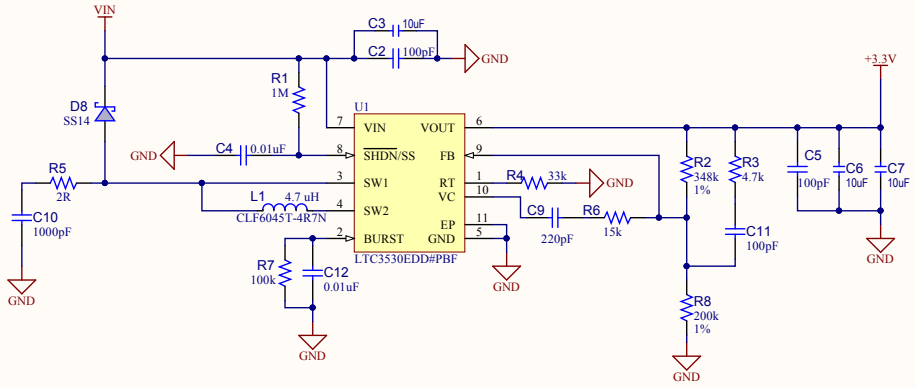
Boost Power Supply (5V out)



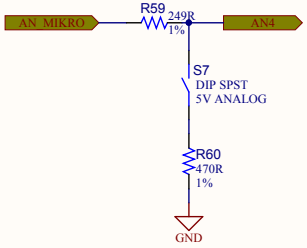
Input Voltage Sense



Buck/Boost Power Supply (3.3V out)



5V mikroBUS Analog -> 3.3V



Drawn By: M. Bradley	MICROCHIP
Engineer: M. Bradley	
PartNumber: MMB-2016-003	Project Title: *IoT Ethernet*
Sheet Title: Power Supplies	Designed with Altium — Altium.com
Size: B	Sch #:03-1051x; Date: 2/3/2016 5:05:07 PM
	Revision:1.0; Sheet 3 of 3
File: mmb-2016-003_power.schdoc	