

Teton

Mixed-signal computational module for the Marmote platform

<http://marmote.googlecode.com>



Pages:

- | | |
|------------------------|----------------------|
| 1 - Cover page | 6 - External AFE #2 |
| 2 - SF supply pins | 7 - Ethernet |
| 3 - Clock, reset, JTAG | 8 - USB and AFE dig. |
| 4 - SF AFE | 9 - I/O signals |
| 5 - External AFE #1 | 10 - Connectors |

Designed by:

Sandor Szilvasi sandor.szilvasi@vanderbilt.edu

Verified by:

Peter Volgyesi peter.volgyesi@vanderbilt.edu

Cover page

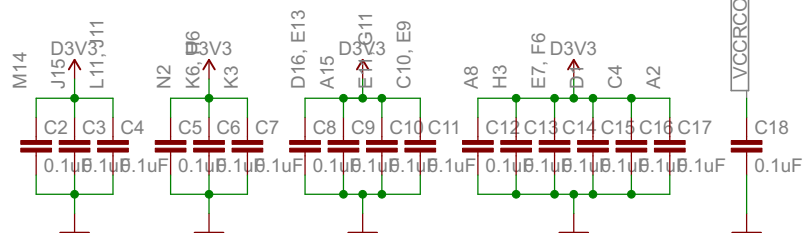
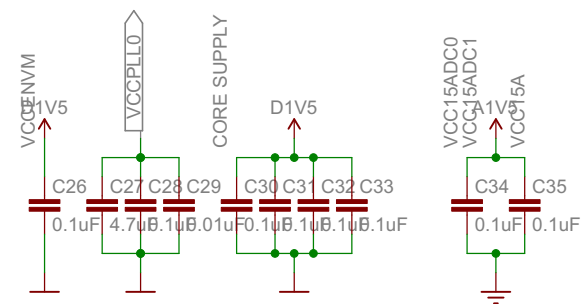
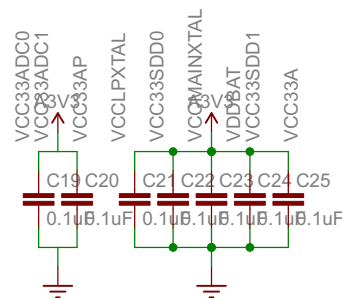
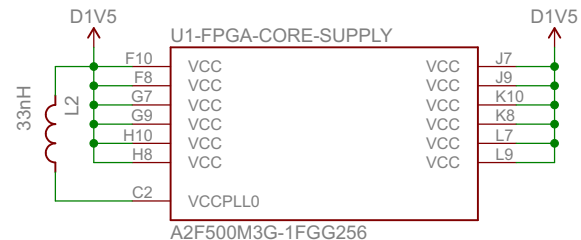
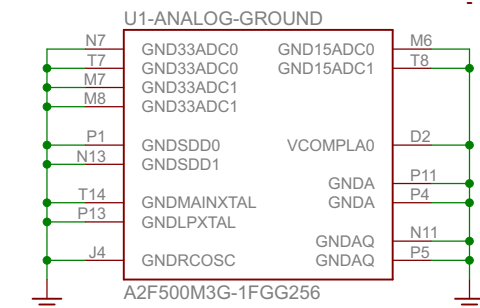
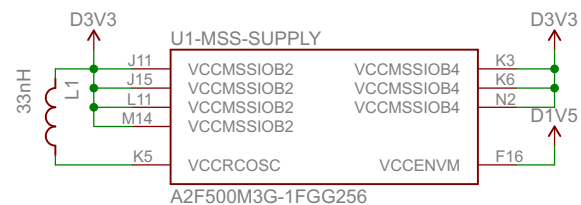
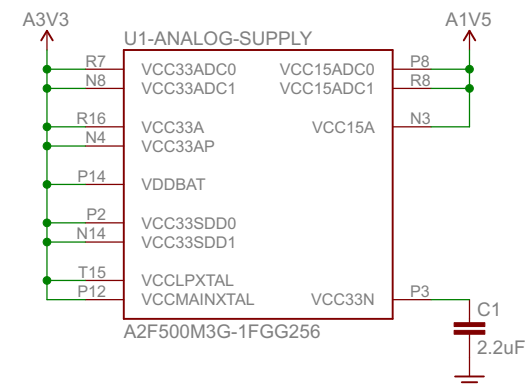
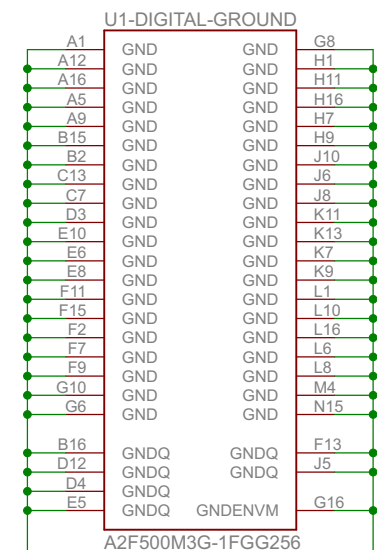
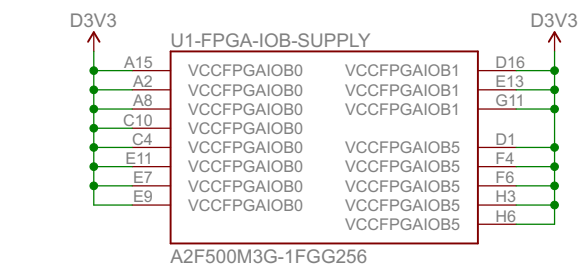
Title: Teton

Rev: A

Date: 12/12/2012 8:42:37

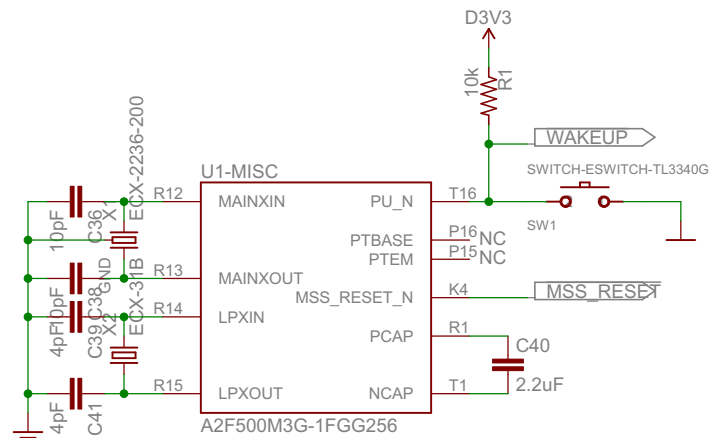
Sheet: 1/10

Copyright © 2012 Vanderbilt University, ISIS

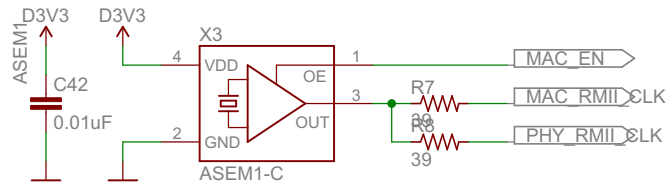


SF supply pins

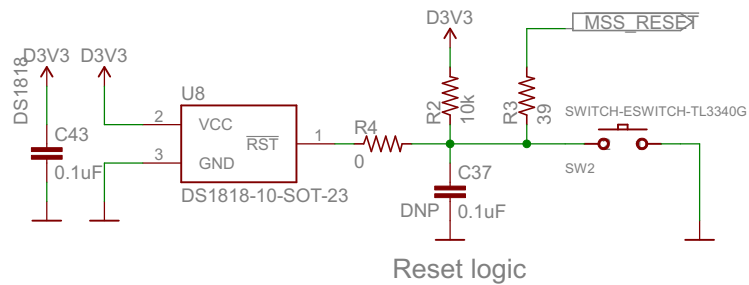
Title: Teton	Rev: A
Date: 12/12/2012 8:42:37	Sheet: 2/10
Copyright © 2012 Vanderbilt University, ISIS	



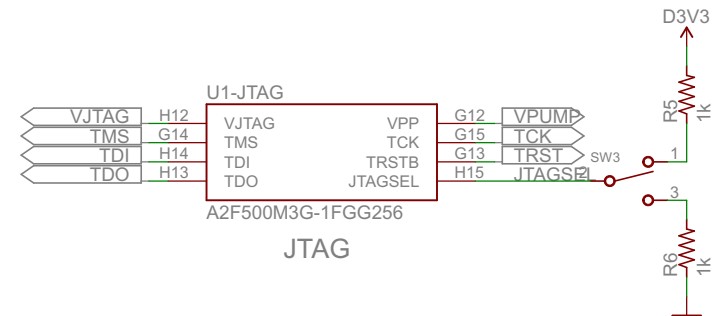
Internal oscillator - 32 kHz



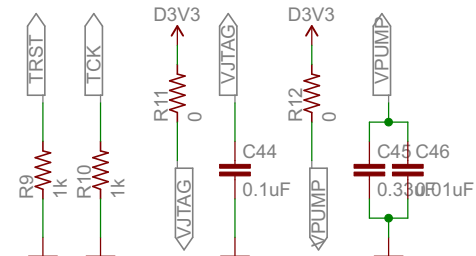
Ethernet oscillator - 50 MHz



Reset logic



JTAG



Clock, reset, JTAG

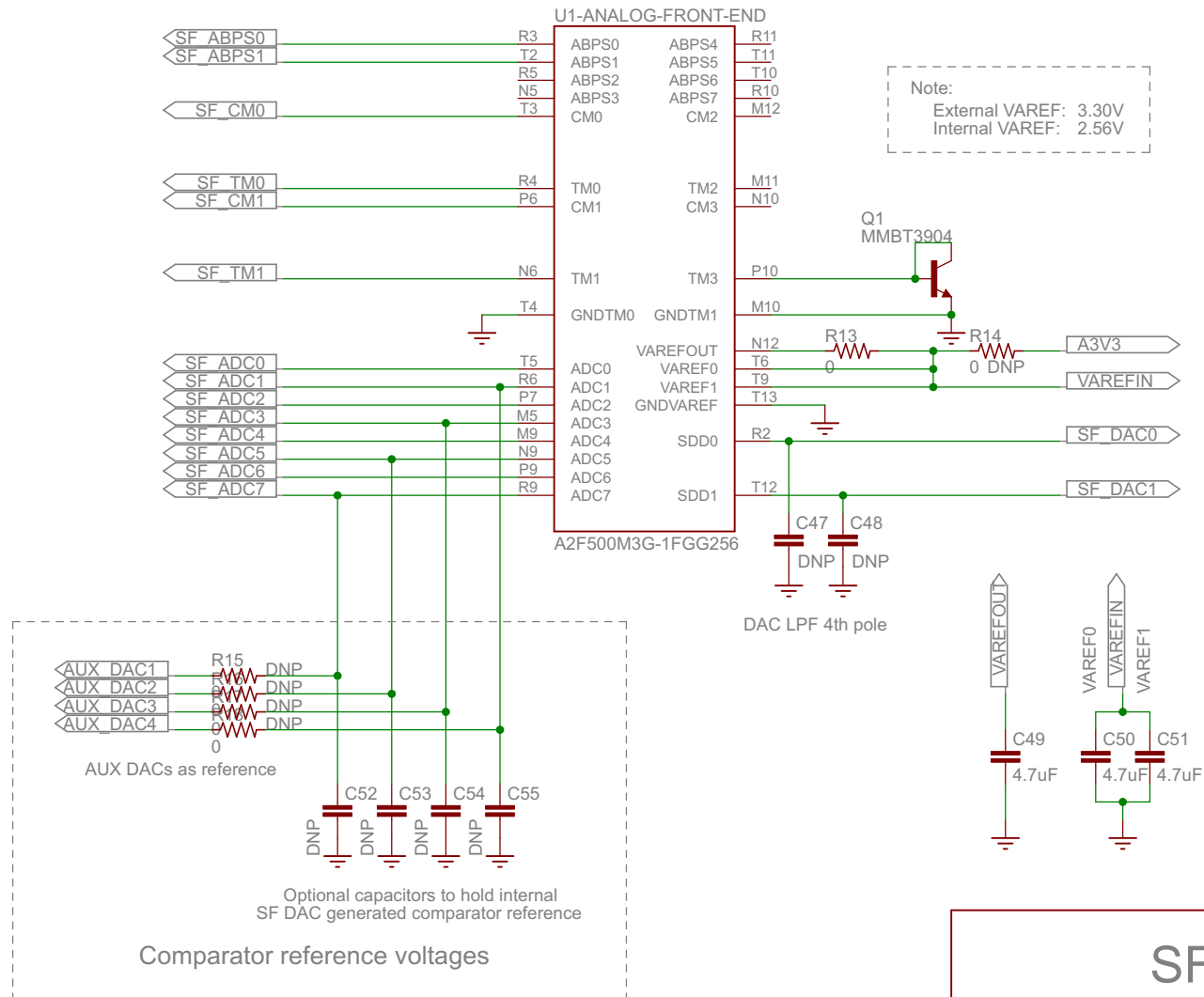
Title: Teton

Rev: A

Date: 12/12/2012 8:42:37

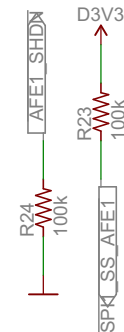
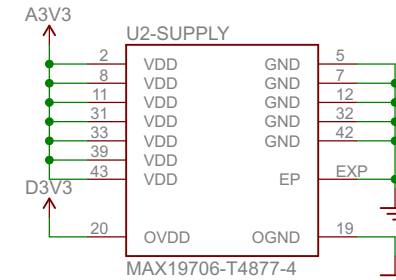
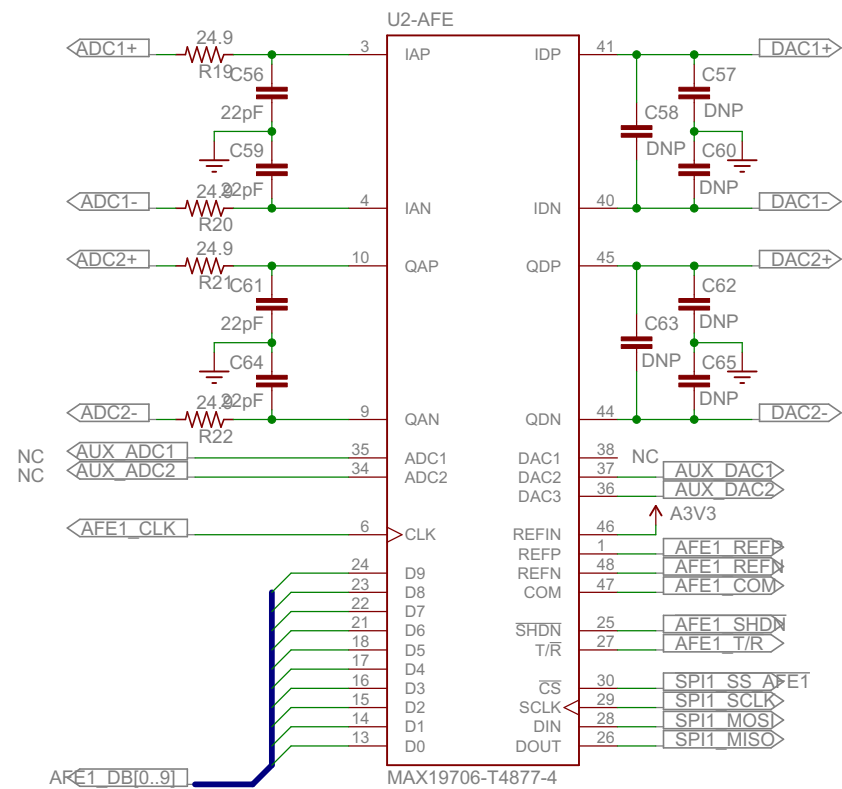
Sheet: 3/10

Copyright © 2012 Vanderbilt University, ISIS

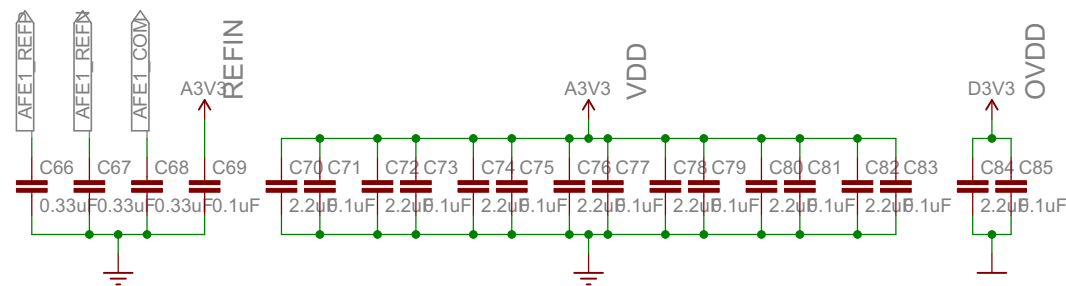


SF AFE

Title: Teton	Rev: A
Date: 12/12/2012 8:42:37	Sheet: 4/10
Copyright © 2012 Vanderbilt University, ISIS	

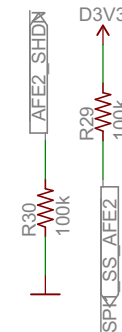
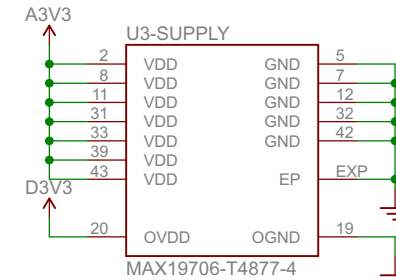
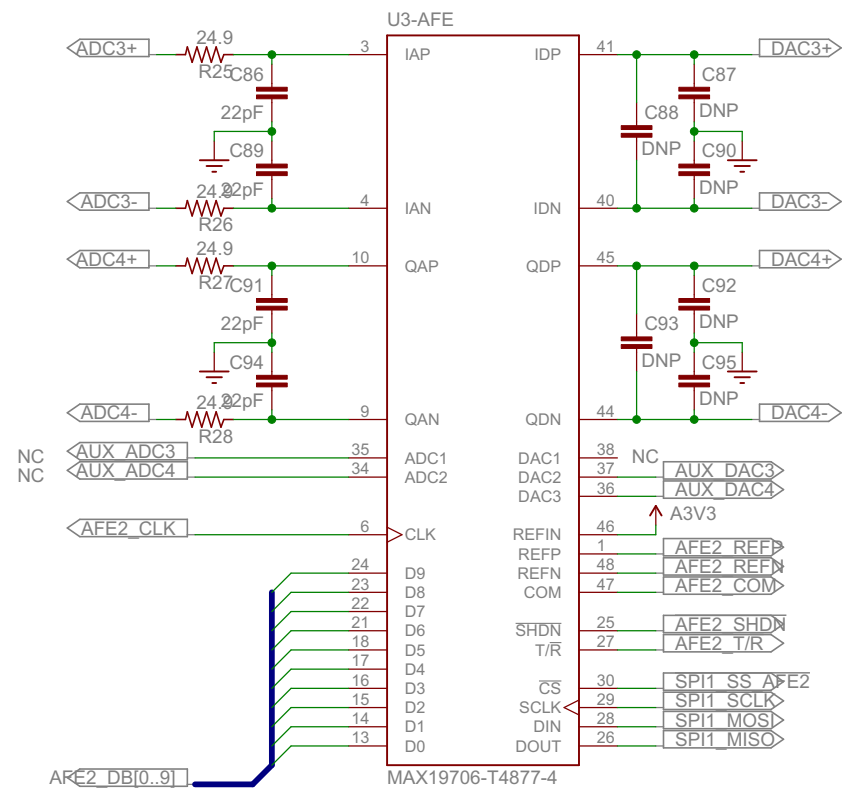


Note:
 -AFEs are disabled by default
 -AFE DB lines are pulled-up internally
 both in AFE and SmartFusion

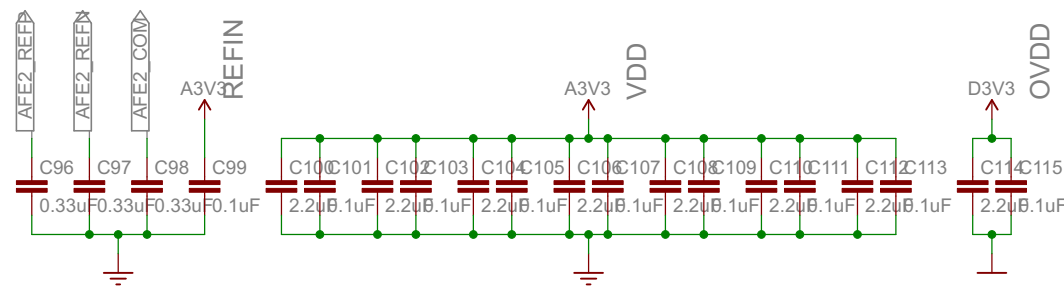


External AFE #1

Title: Teton	Rev: A
Date: 12/12/2012 8:42:37	Sheet: 5/10
Copyright © 2012 Vanderbilt University, ISIS	

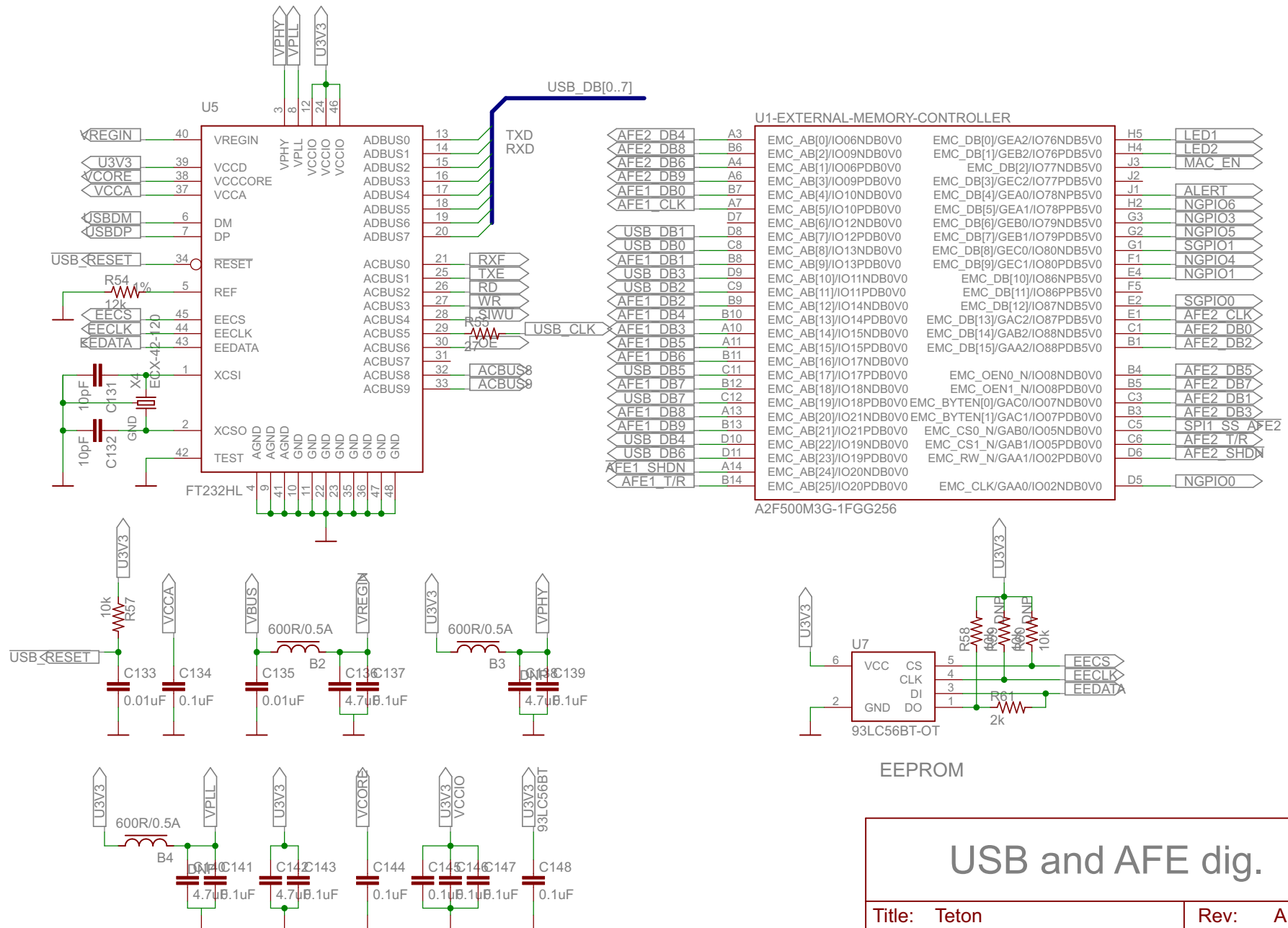


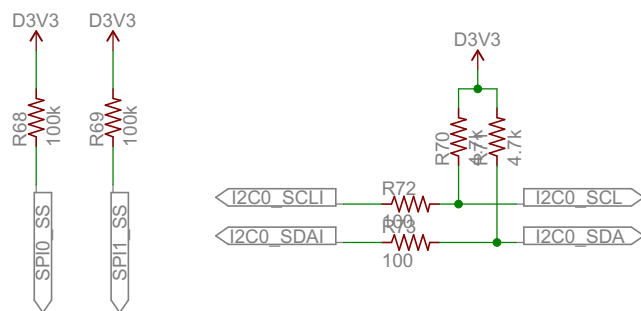
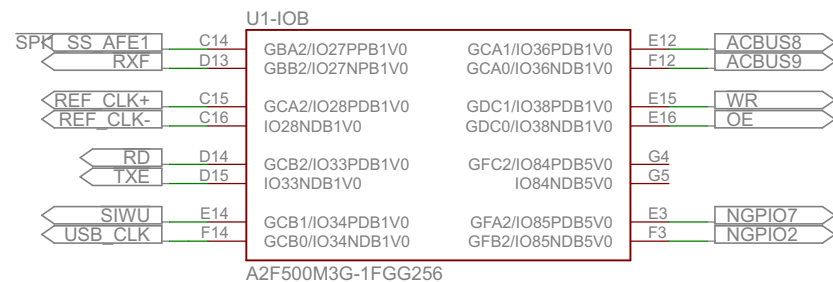
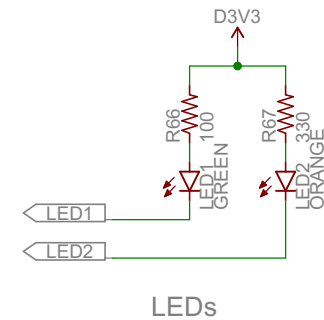
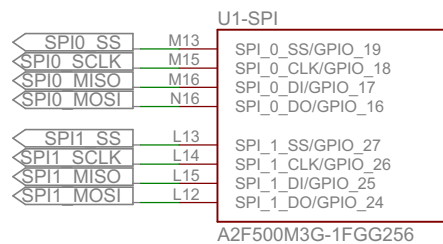
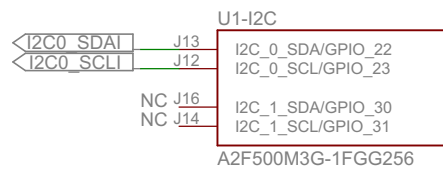
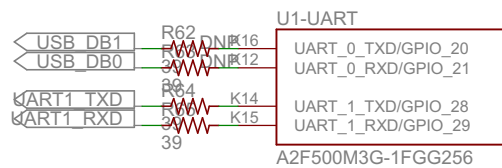
Note:
 -AFEs are disabled by default
 -AFE DB lines are pulled-up internally
 both in AFE and SmartFusion



External AFE #2

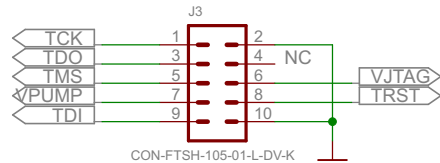
Title: Teton	Rev: A
Date: 12/12/2012 8:42:37	Sheet: 6/10
Copyright © 2012 Vanderbilt University, ISIS	



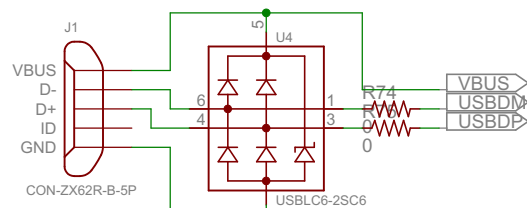


I/O signals

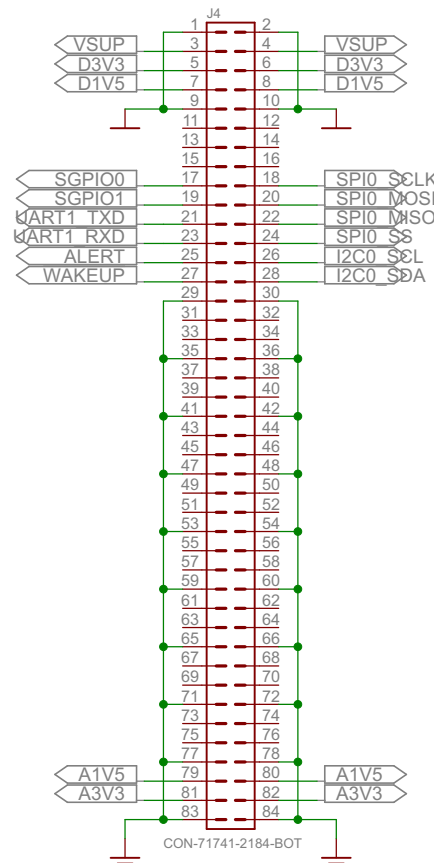
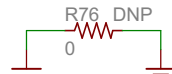
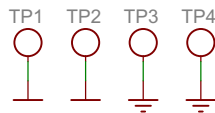
Title: Teton	Rev: A
Date: 12/12/2012 8:42:37	Sheet: 9/10
Copyright © 2012 Vanderbilt University, ISIS	



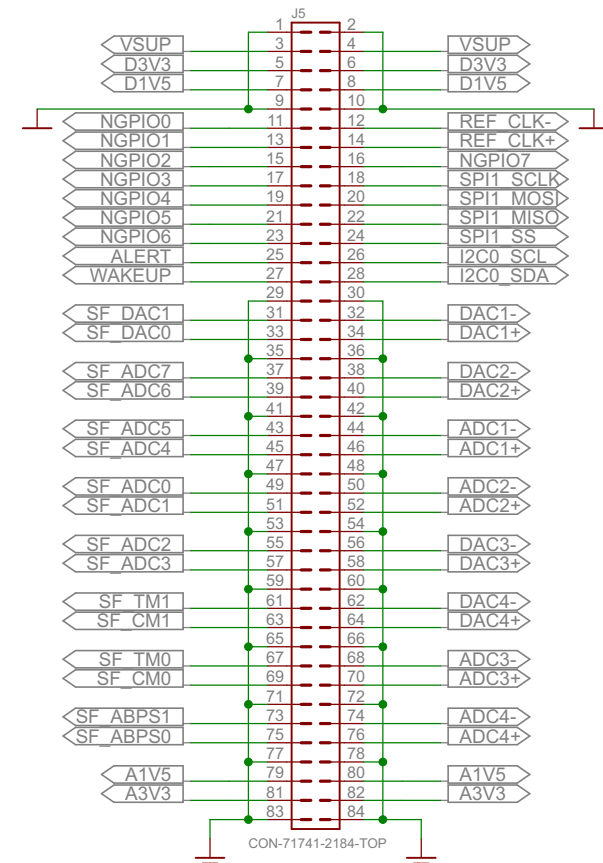
JTAG header



USB connector



South bridge



North bridge



Connectors

Title: Teton	Rev: A
Date: 12/12/2012 8:42:37	Sheet: 10/10
Copyright © 2012 Vanderbilt University, ISIS	