

6

5

4

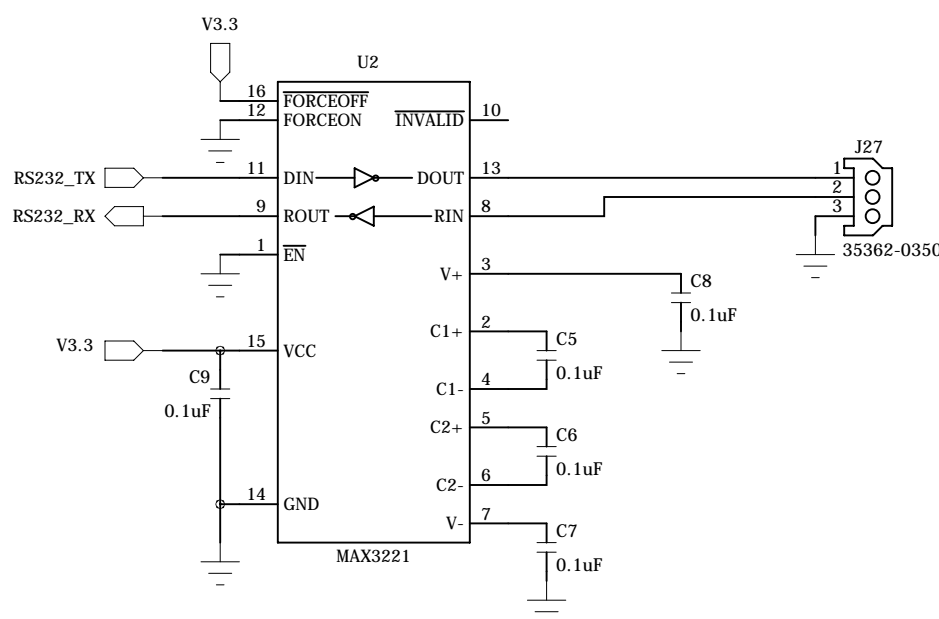
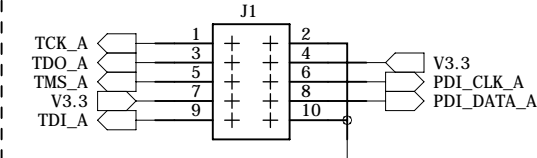
3

2

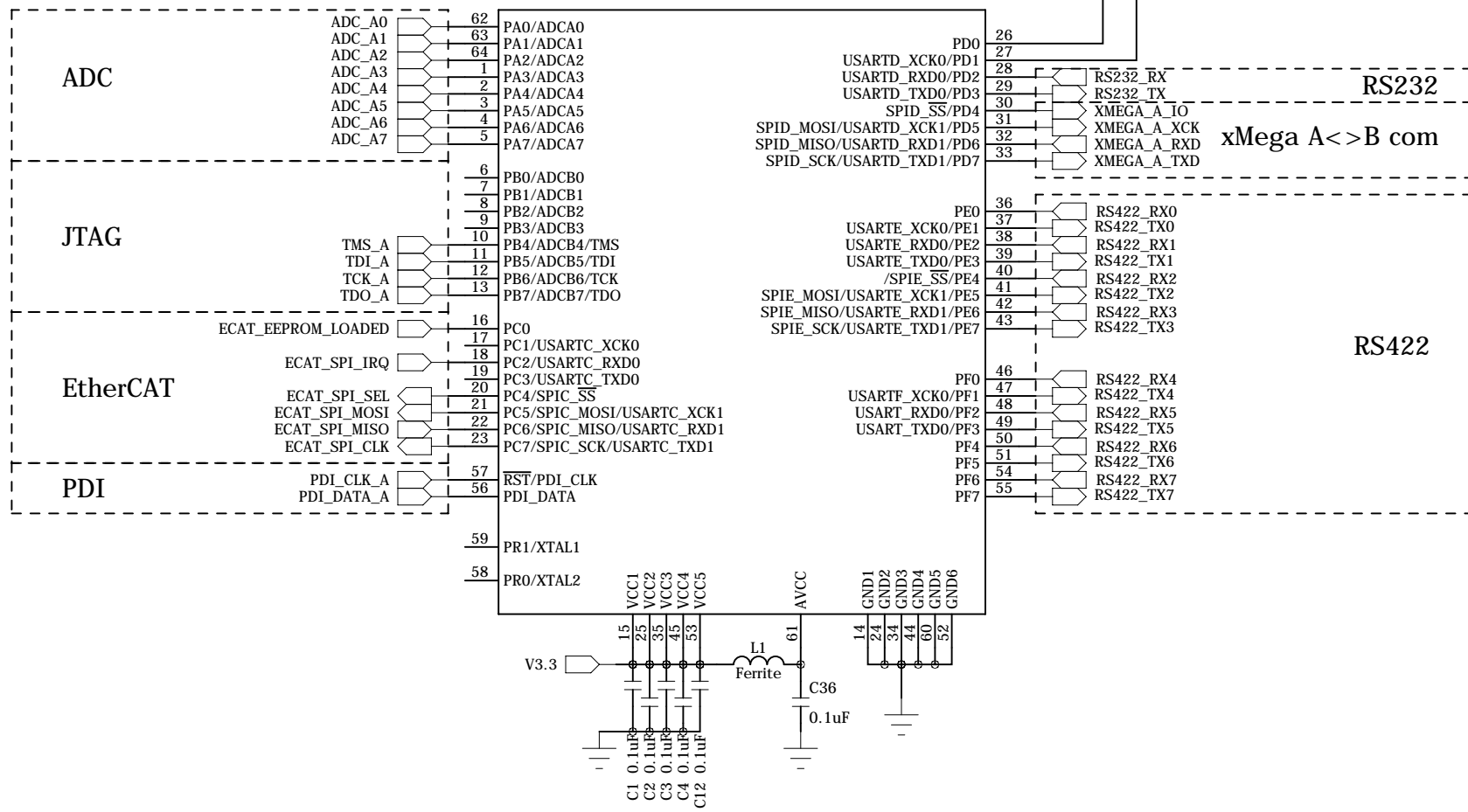
1

REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE:

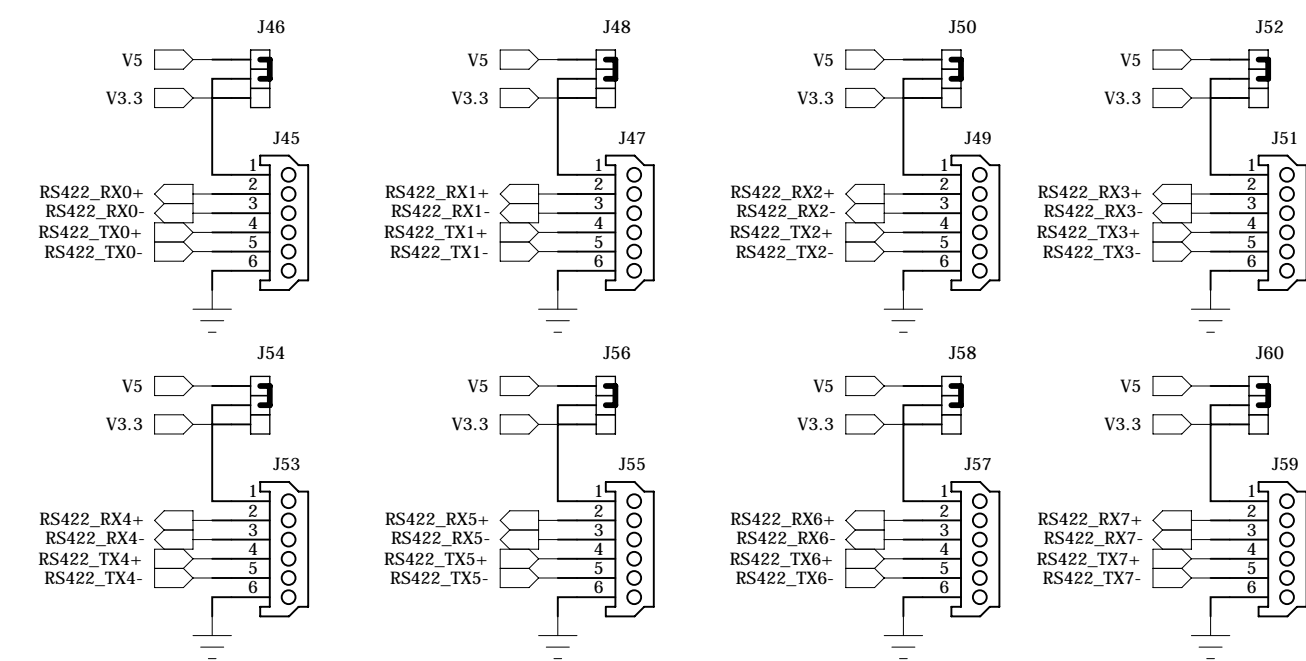
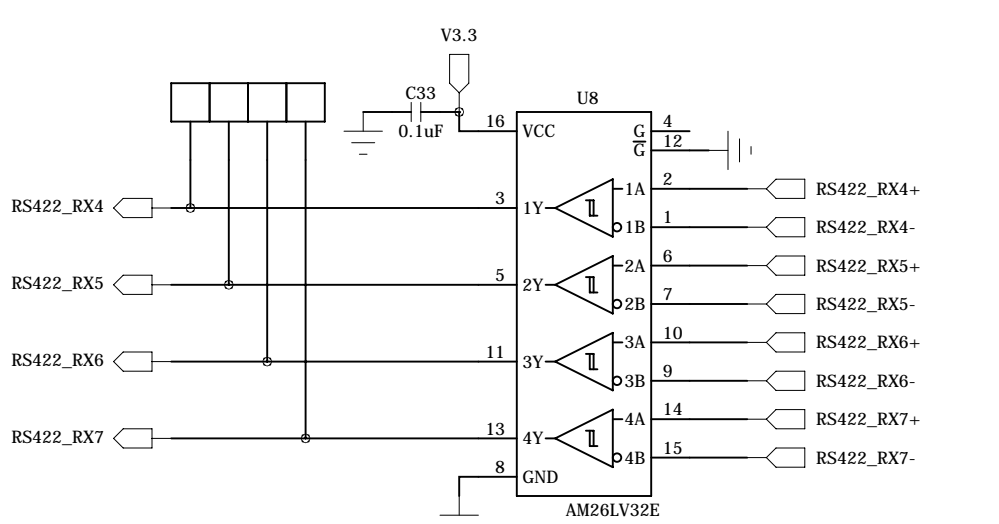
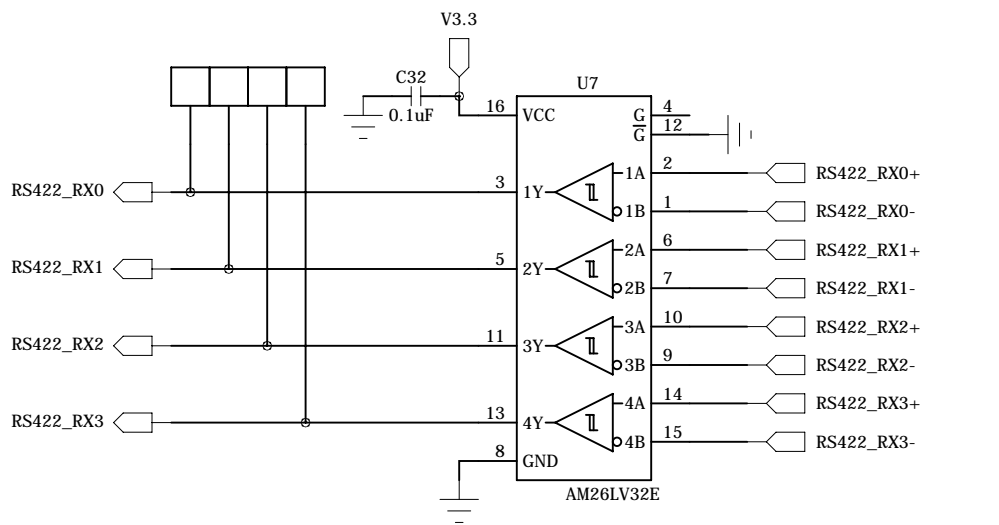
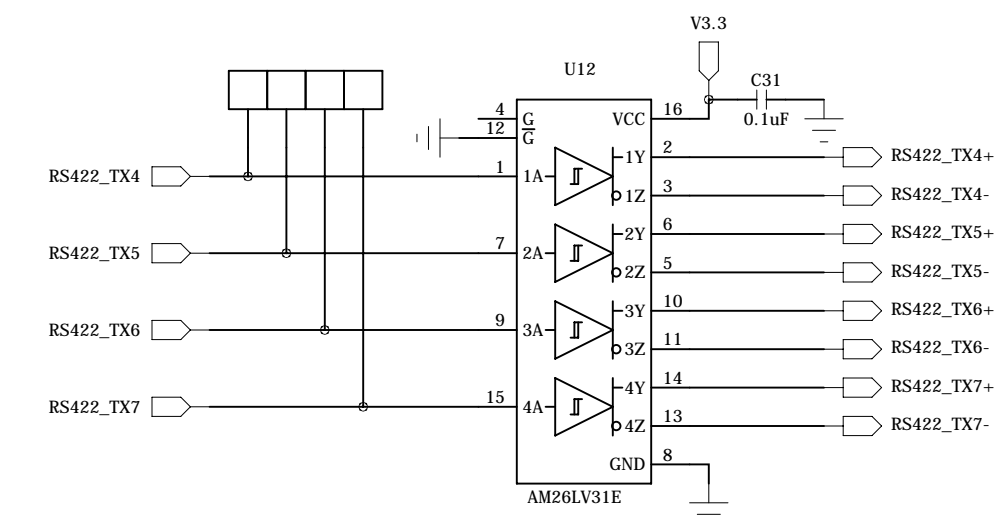
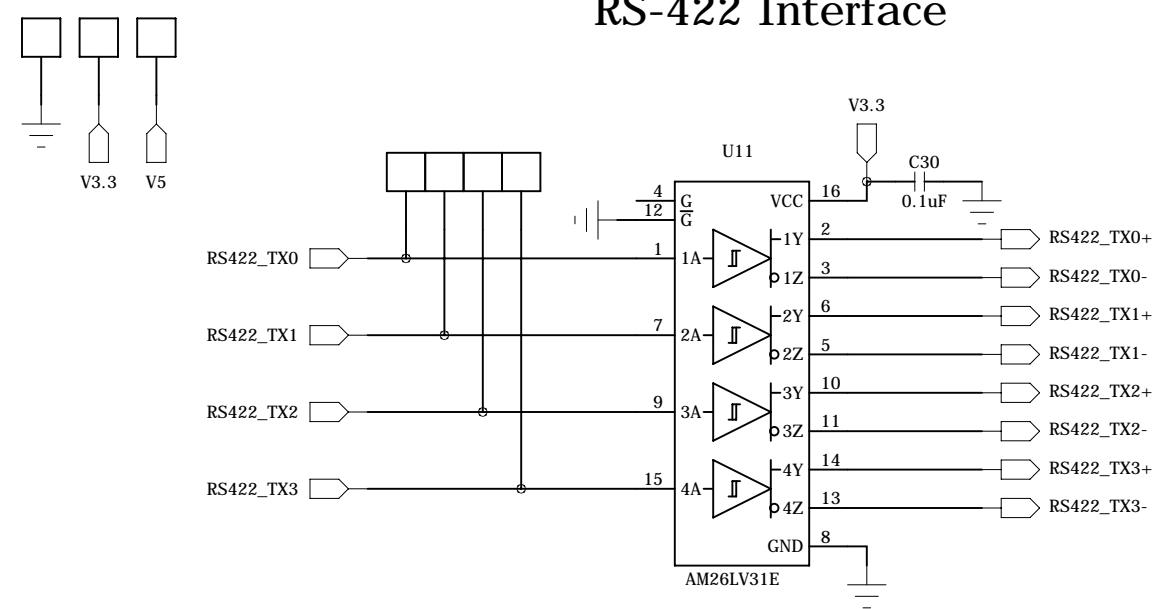
## RS-232 Interface

Programming Interface  
xMega A

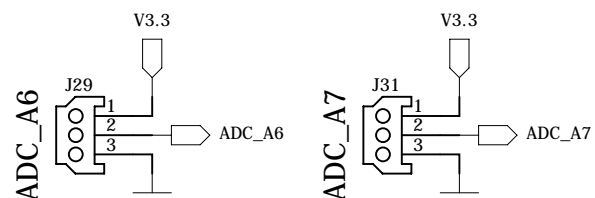
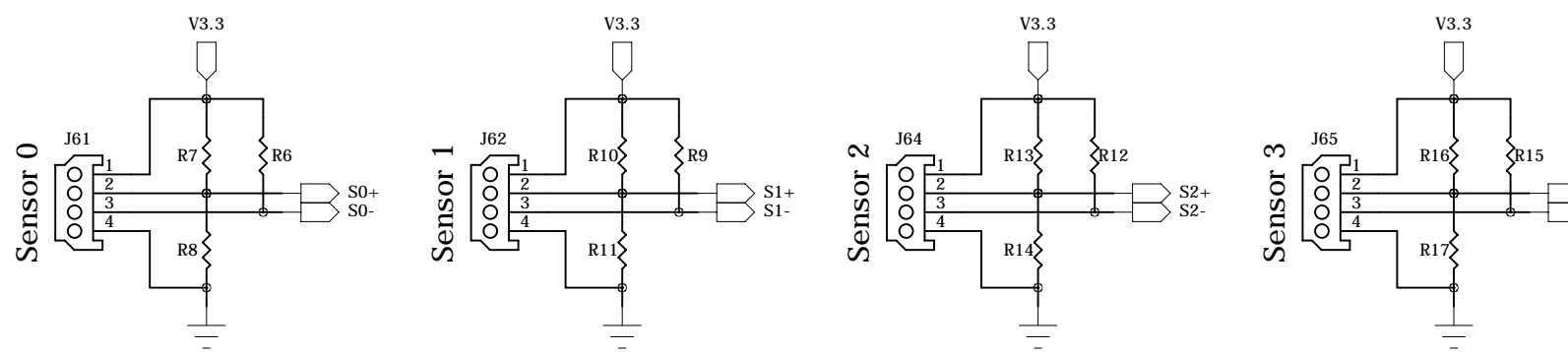
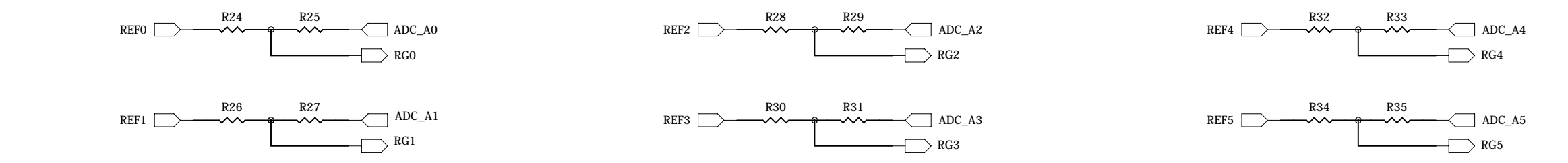
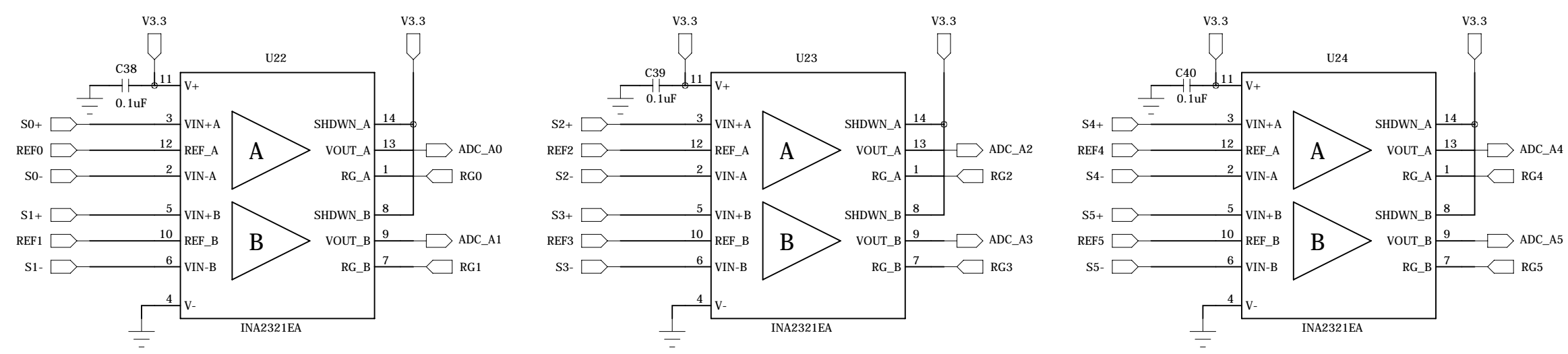
## xMega A



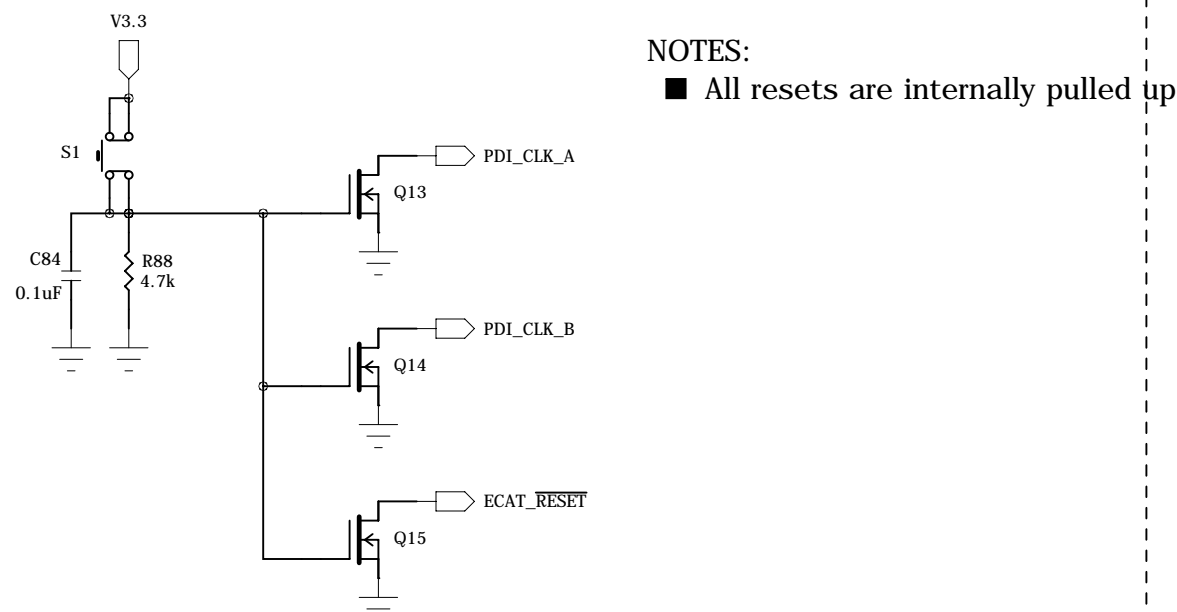
## RS-422 Interface



## ADC and Sensor Inputs

NOTES:  
■ ...  
■ ...

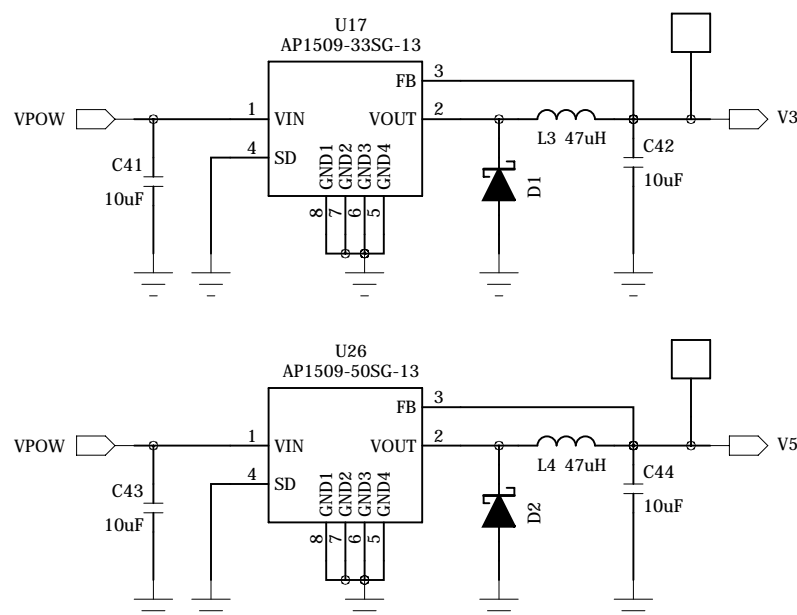
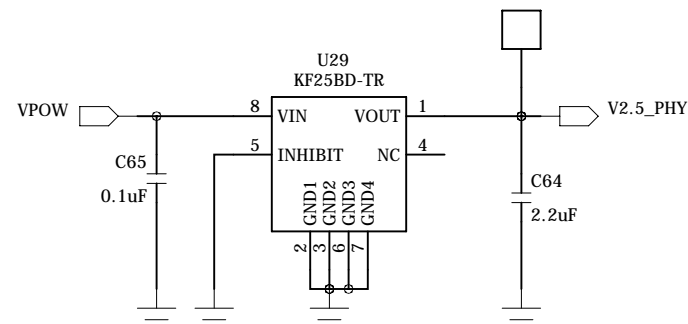
## System Reset

NOTES:  
■ All resets are internally pulled up

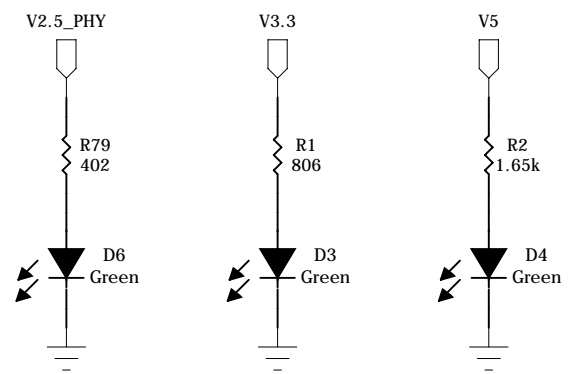
## Power Subsystem

(verify this)

■ 5.5V-20V

NOTES:  
■ Max 2A continuous current for 3.3v and 5v supply  
■ Max 500mA continuous current for 2.5v supply  
■ Max 3A pulsed current for 3.3v and 5v supply  
■ Max 1A pulsed current for 2.5v supply

## Power Indicators



COMPANY: Oregon State University

TITLE: Medulla

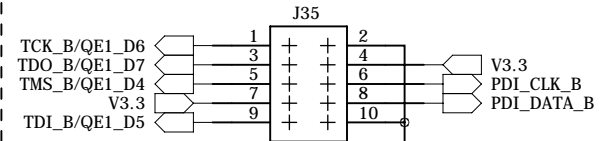
DRAWN:	KEVIN KEMPER	DATED:	1/8/2009	CODE:	SIZE:	DRAWING NO:	REV:
CHECKED:	<Checked By>	DATED:	<Checked Date>	CODE:	SIZE:	DRAWING NO:	REV:
QUALITY CONTROL:	<QC By>	DATED:	<QC Date>	CODE:	SIZE:	DRAWING NO:	REV:
RELEASED:	<Released By>	DATED:	<Release Date>	CODE:	SIZE:	DRAWING NO:	REV:

&lt;Code&gt; D 1 0

SHEET: 1 of 3

REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE:

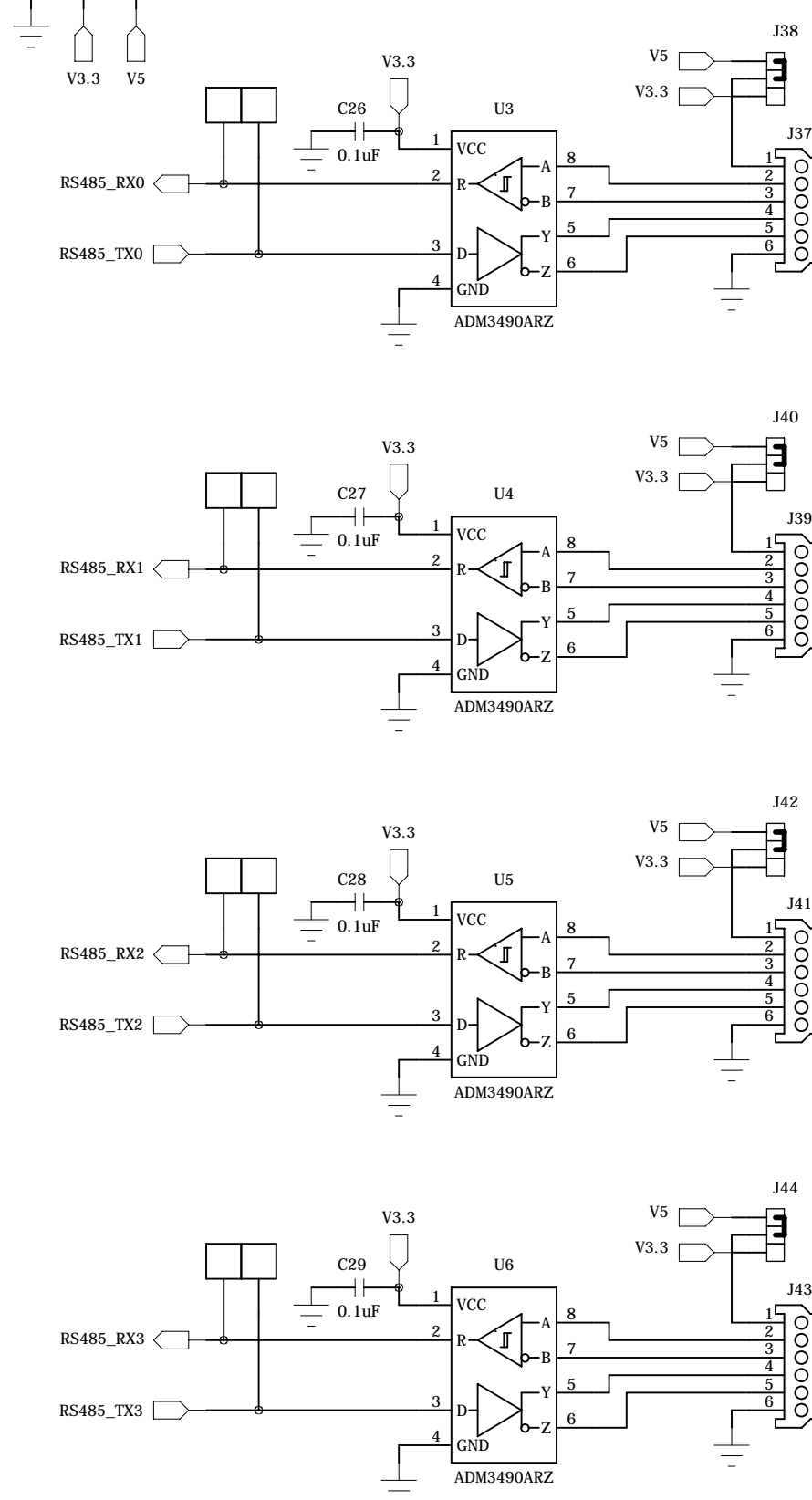
## Quadrature Encoder Counters

Programming Interface  
xMega B

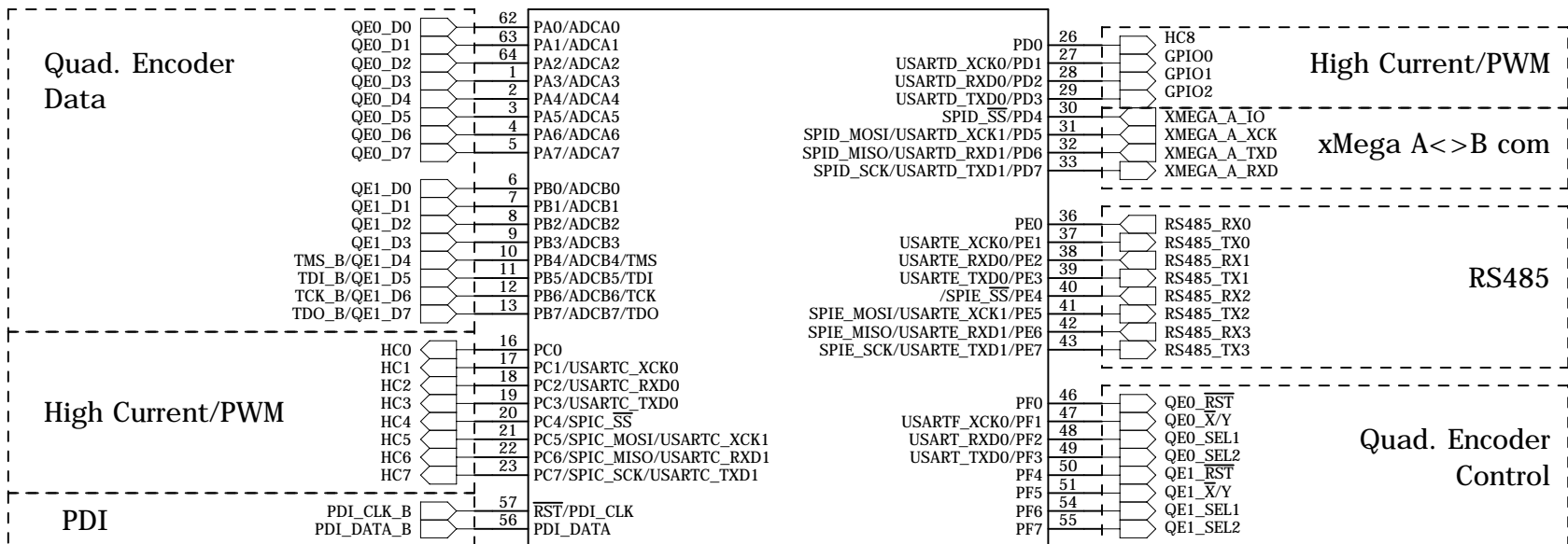
## xMega Com Debug



## RS-485/422 Transceivers

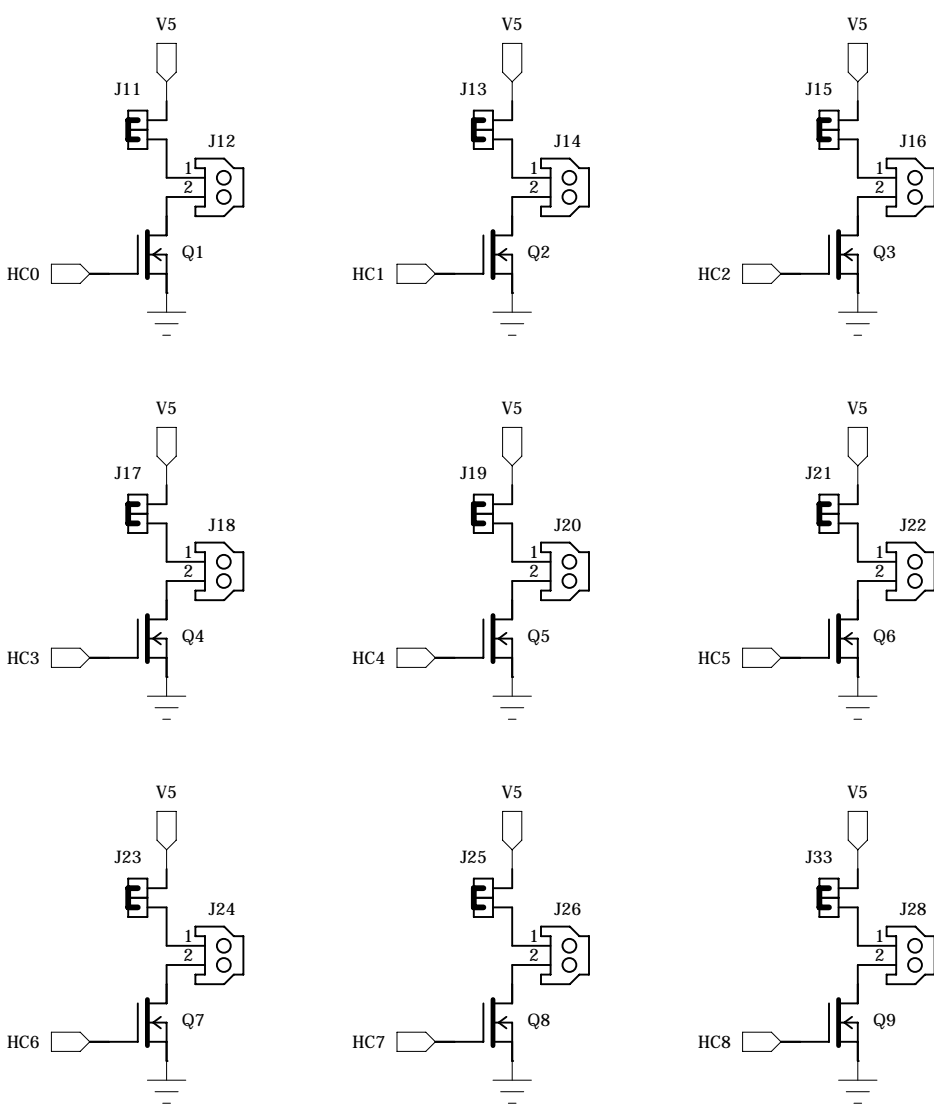


## xMega B



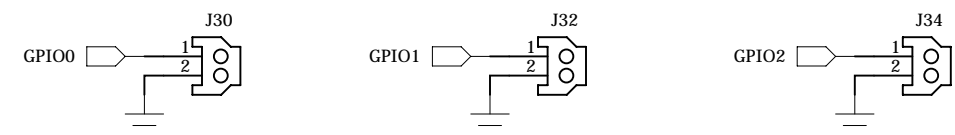
## High Current Outputs

- NOTES:
- Max 150mA continuous current
  - Max 600mA pulsed current (<10us)
  - Max 300mW continuous power dissipation



## GPIO

- NOTES:
- 3.3V only



COMPANY: Oregon State University			
TITLE: Medulla			
DRAWN: Kevin Kemper	DATED: 1/8/2009	CODE: <Code>	SIZE: D
CHECKED: <Checked By>	DATED: <Checked Date>	DRAWING NO: 1	REV: 0
QUALITY CONTROL: <QC By>	DATED: <QC Date>	SCALE: <Scale>	SHEET: 2 of 3
RELEASED: <Released By>	DATED: <Release Date>		

