

REV	Description	Date	Approved
A	Initial schematic ready for layout.	2003-9-9	Dai Zhan Bo

Notes, Unless Otherwise Specified:

- Resistance Values are in Ohms.
- Capacitance Values are in Microfarads.
- Inductance Values are in Microhenries.
- Highest Reference Designator used:
 - A. IC's U44
 - B. Resistors R203
 - C. Capacitors C248
 - D. Inductors L4
 - E. Transistors Q4
 - F. LED D1
 - G. Crystals Y4
 - H. Connectors/Headers JB
 - I. Switches SW1
 - J. Test Points TP4
- The following is the list of uninstalled parts:
- All 0.1uF and 0.01uF caps are decoupling caps unless otherwise noted. They are shown on the page with ICs they should be placed near.
- Board Properties:
 - A. Route to within 10% MANHATTAN Distance
 - B. 50 +/-5 Ohm Matched Impedance
 - C. Outer Layers 0.5 OZ Cu /W 0.5 OZ Au Plating
 - D. Inner Layer 1.0 OZ Cu
 - E. FR4 Board Material
 - F. Minimum Trace Width/Spacing 8 Mils
 - G. Minimum Via Size 12/24 Mils
 - H. Approximate Board Size 9 x 9 cm^2
 - I. Layer Stackup:
 - Top - Signal Routing
 - Inner 1 - Signal Routing
 - Power Plane - Split Plane: +1.8V For DSP Core, +3.3V For DSP I/O
 - Ground Plane - Split Plane: GND For Digital, AGND For Analog
 - Inner 2 - Signal Routing
 - Bottom - Signal Routing

Schematic Index:

- SEED-DEC2812 Notes and Contens
- F2812 & Memory
- Expand Bus
- Expand Bus at the Bottom
- PWM
- Analog Input & Output
- USB & RTC
- UART & CAN
- Power

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DWN:	Date:
CHK:	Date:
ENGR:	Date:
MGR:	Date:
QA:	Date:
MFG:	Date:
RLSE:	Date:

Application

SEED Electronic Technology Ltd.			
Address: No.106 Zhichunlu, Haidian District, Beijing 100086			
Telephone: (010)51518855		FAX: (010)51518866	
Title: DSP Embedded Controller With TMS320F2812			
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A

A

B

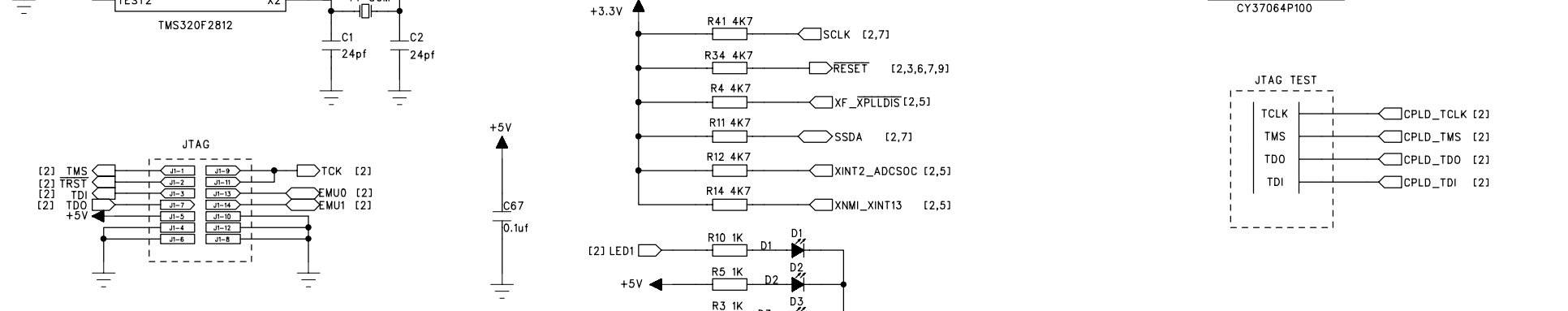
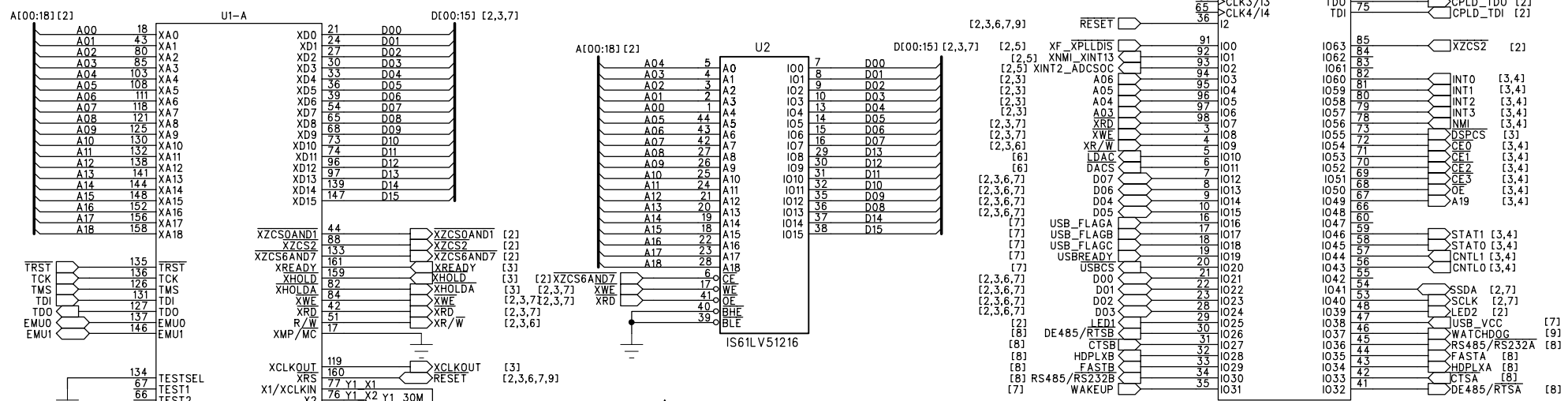
B

C

C

D

D



DSP & Memory

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A

B

C

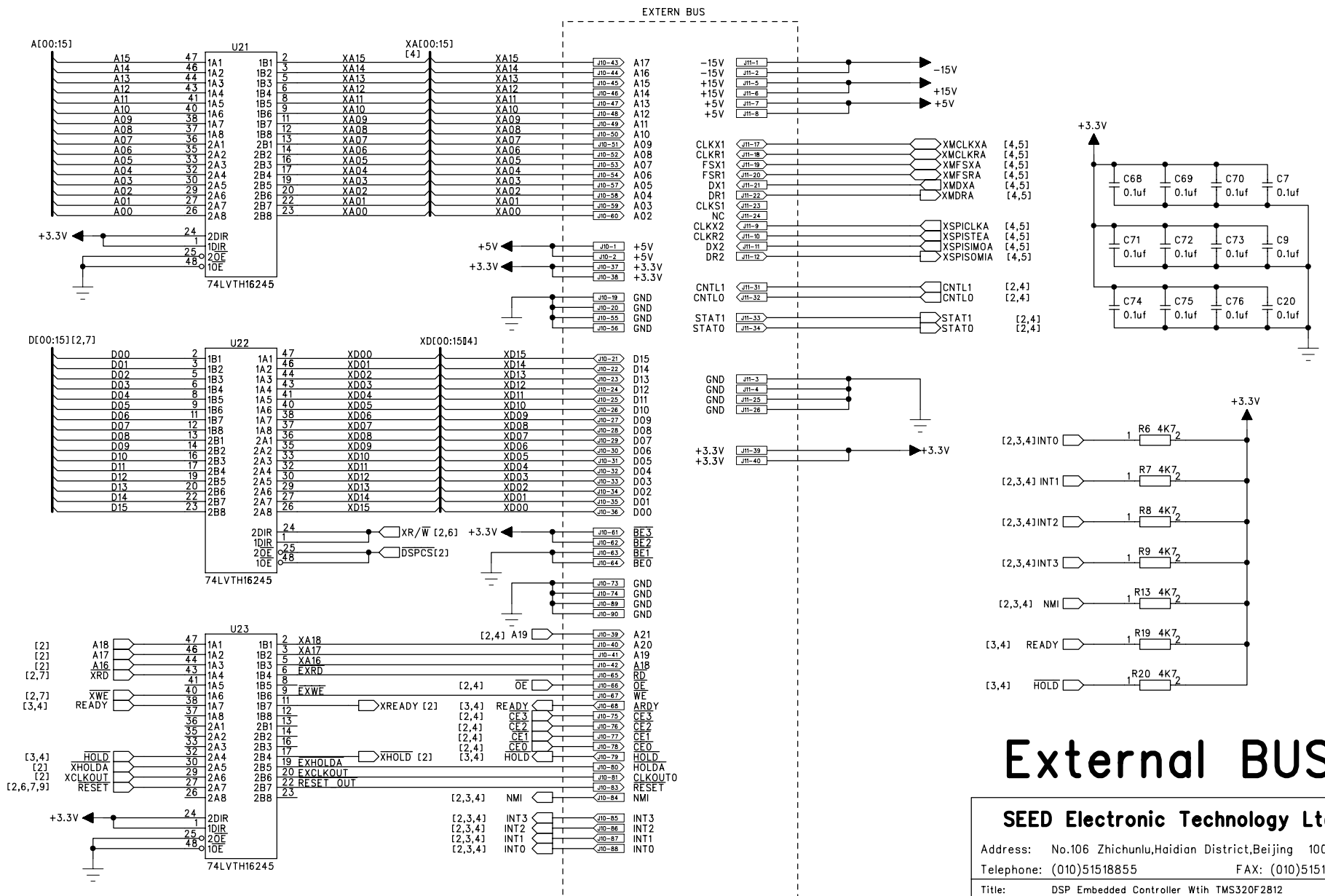
D

A

B

C

D



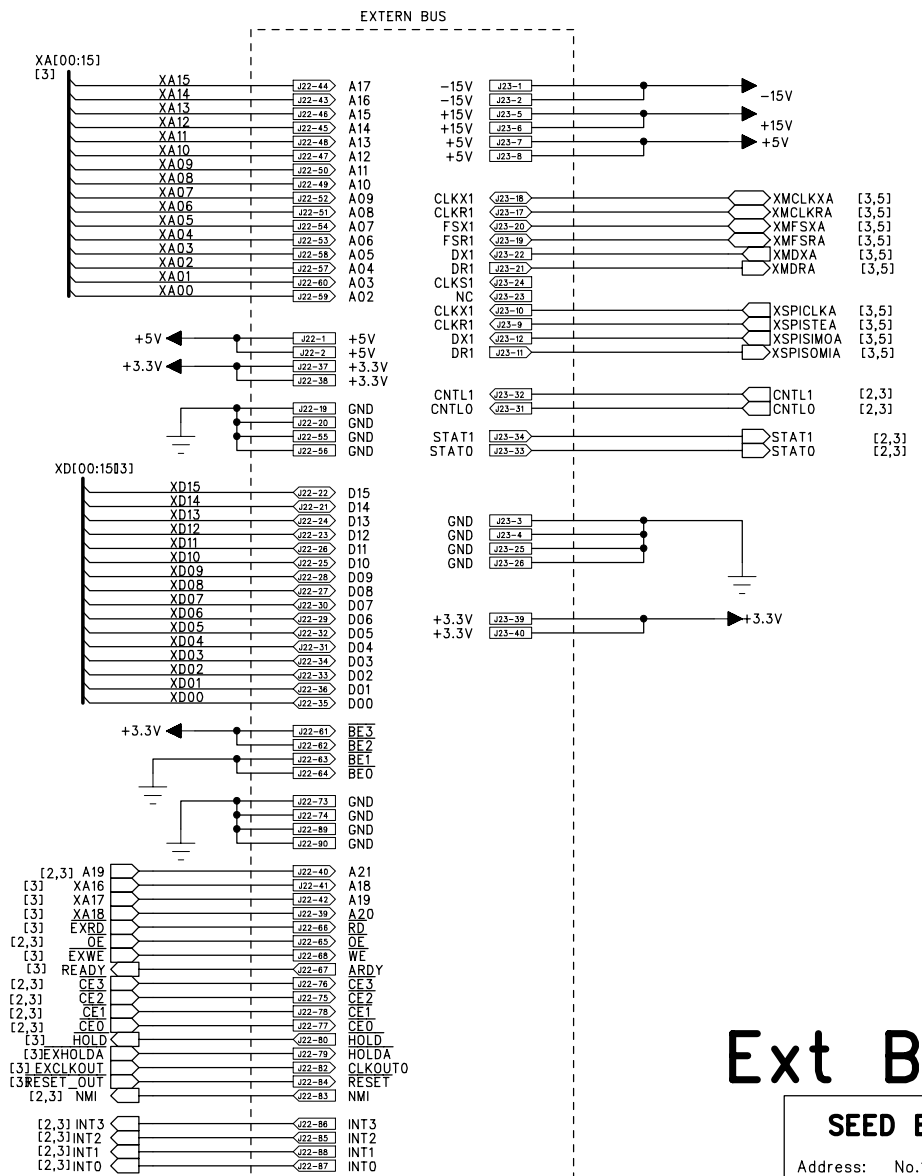
External BUS

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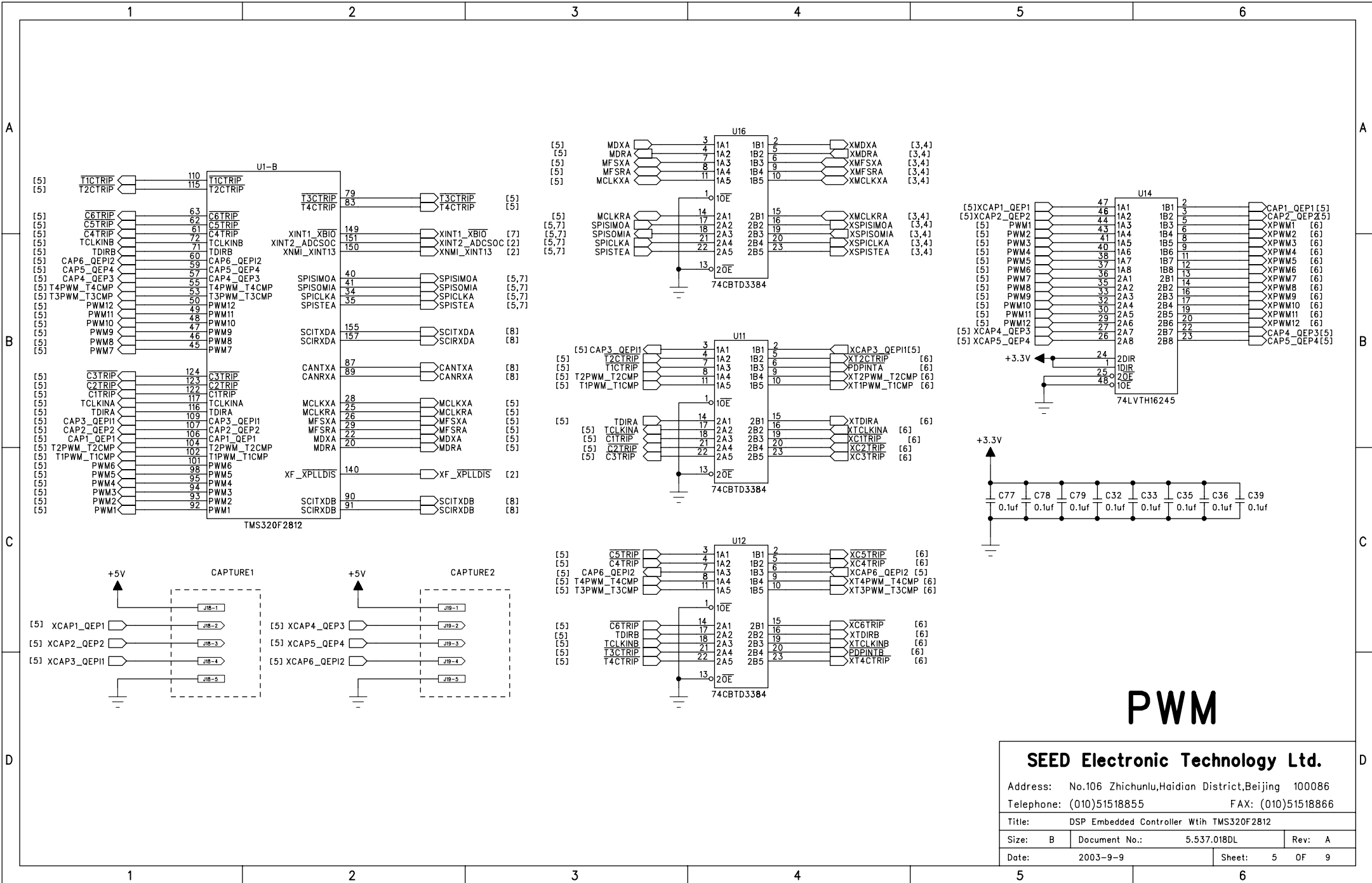
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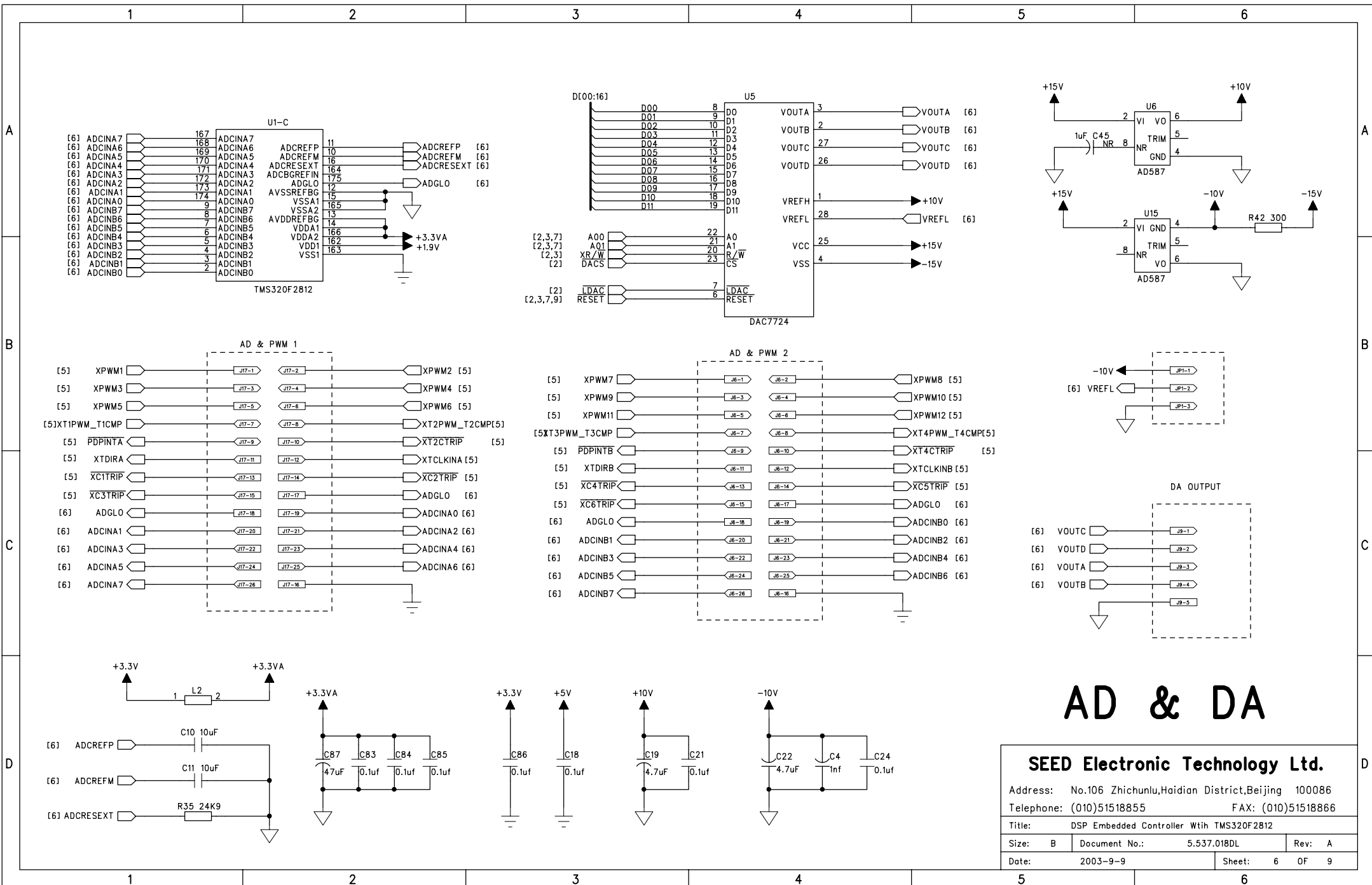
Ext BOTTOM BUS

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PWM

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AD & DA

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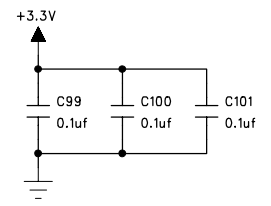
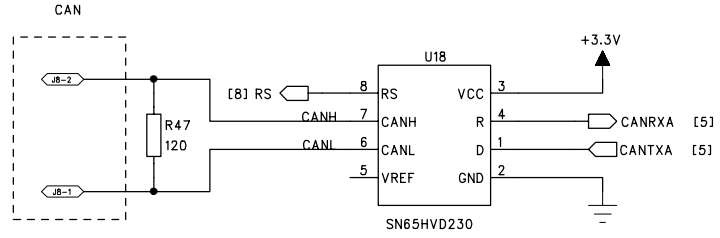
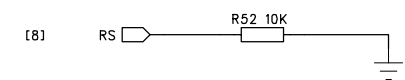
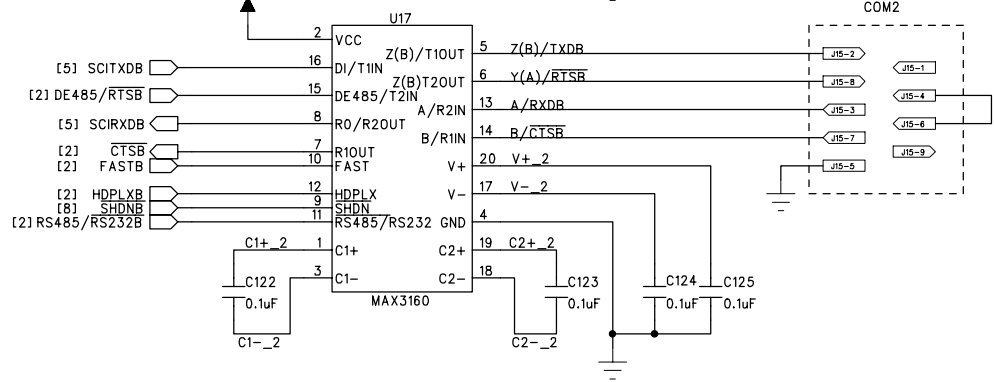
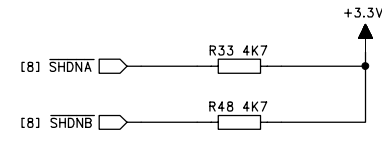
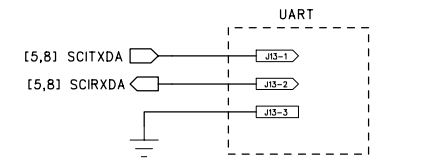
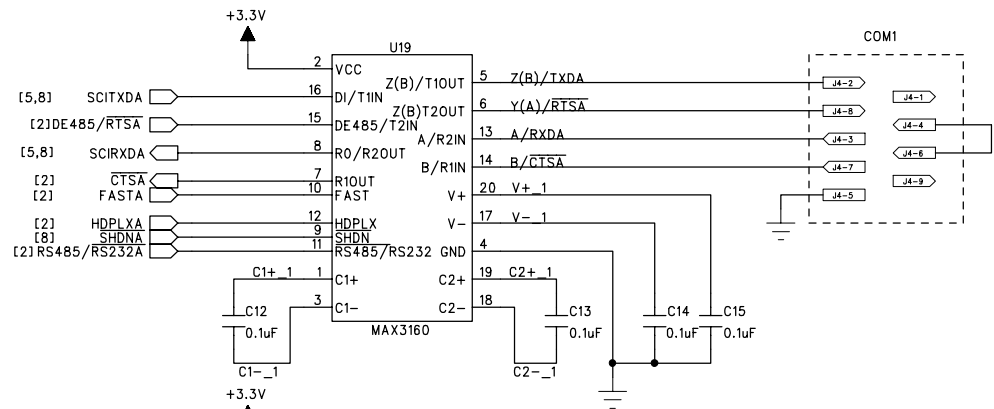
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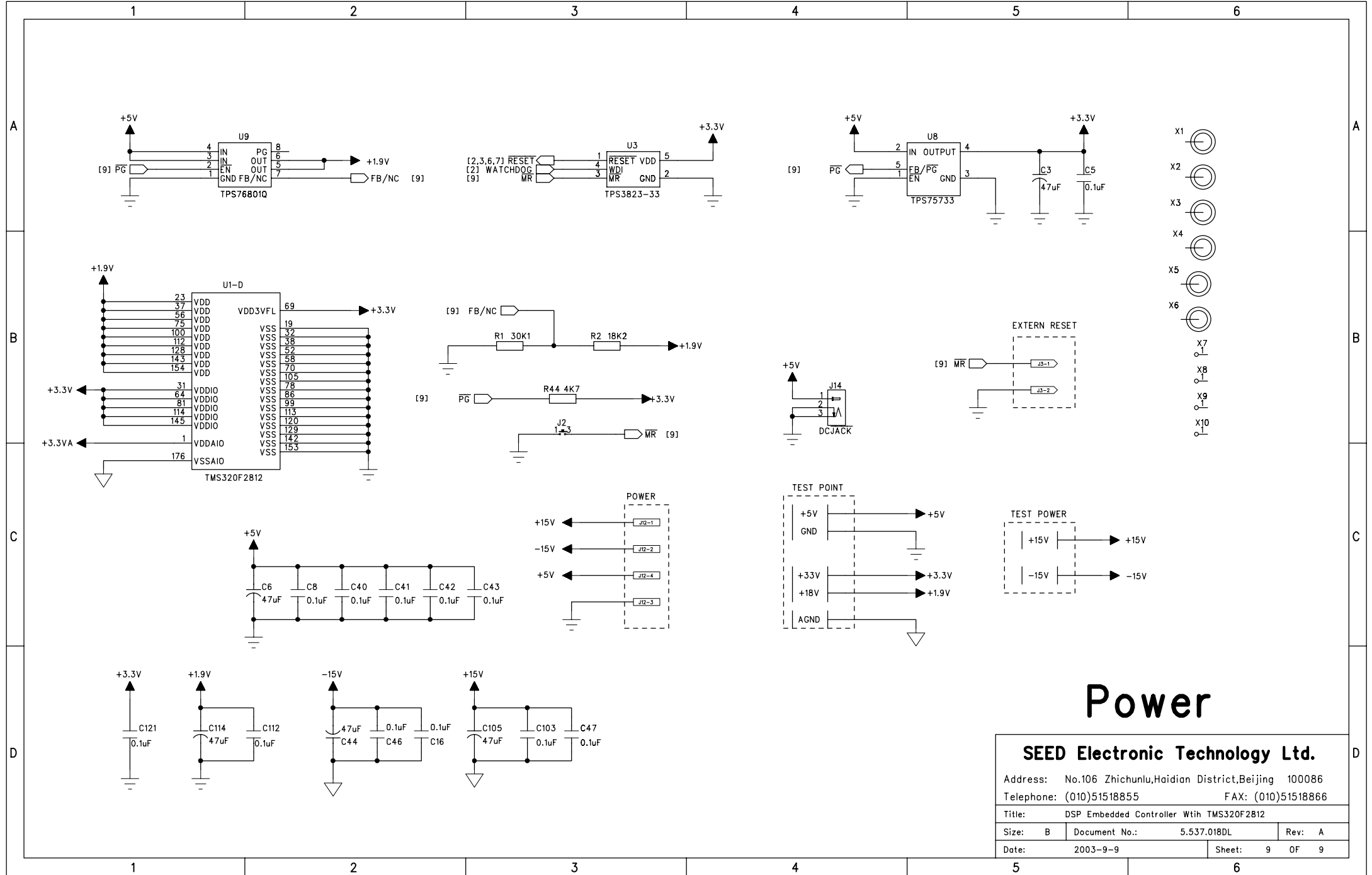
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UART & CAN

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Power

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