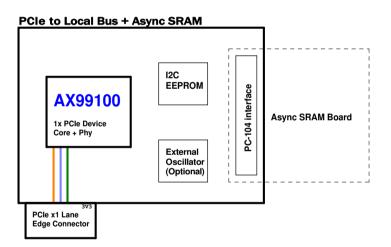
AX99100 PCIe to Local Bus Demo Board Schematic

Page 1 System Block (This Page) Page 2
PCIe Interface
Power Circuit

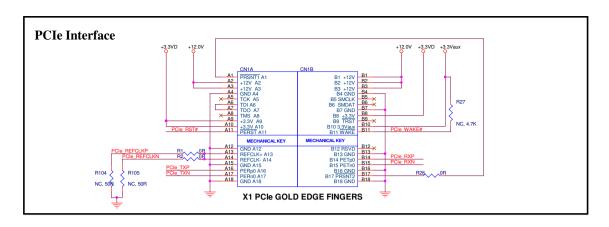
Page 3 AX99100 I2C EEPROM PC-104 Interface Page 4 Revision History

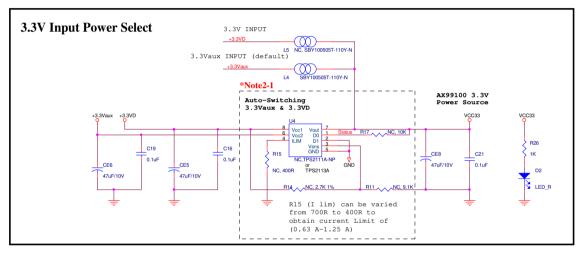


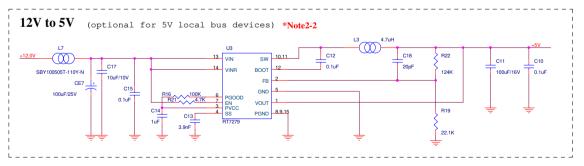
Note:

- 1.Please refer to AX99100_LOCALBUS_ASYNC_SRAM_MODULE_REFERENCE_SCHEMATIC for Async SRAM Module Board schematic.
- 2.Please deliver us your AX99100 schematic and PCB layout file for further review.

	M 2	SIX ASIX ELECTRONIC	CS COR	PORA	TION				
Ī	Title	System Block	stem Block						
3	Size Cust	Document Number Pm AX99100 Local Bus December December 1	emo Boa	ard			Rev 1.02		
Ī	Date:	Thursday, November 12, 2020	Sheet	1	of	4			
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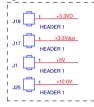
PCIe INTERFACE

PCIe_TXP	>> PCIe_TXI	P 3
PCIe_TXN	>> PCIe_TXI	N 3
PCIe_RXP	—>>> PCle_RX	P 3
PCIe_RXN	—>>> PCle RX	N 3
PCIe_REFCLKP	>> PCIe RE	FCLKP
PCIe REFCLKN		FCLKN
PCIe WAKE#	—>>> PCle WA	
PCIe RST#	>> PCIo PS	

POWER

VCC33	>>> VCC33	
+3.3Vaux		
+5V		
+12.0V	//	
GND		
GIAD		

Optional

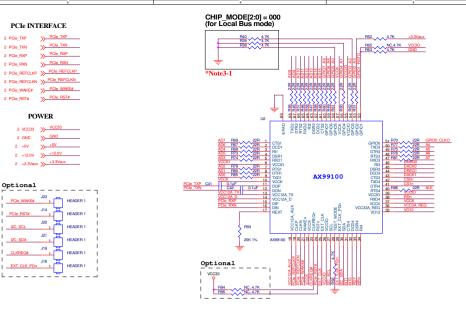


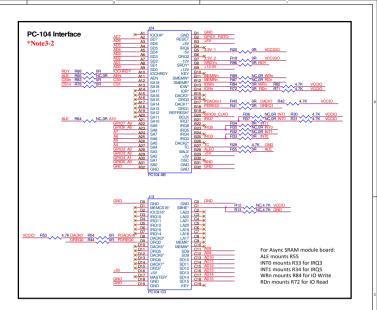
*Note2-1:

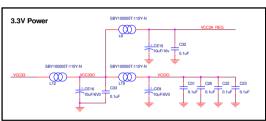
The default power circuit provides AX99100 3.3V power source from PCIe 3.3Vaux directly. You can implement the Auto-switching power circuit to auto-switching the 3.3Vaux and 3.3VD power supply sources if necessary.

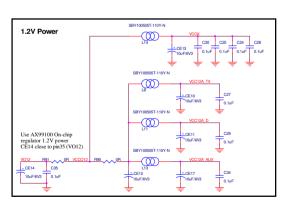
*Note2-2

The 12V to 5V regulator circuit is optional to provide 5V power source for the connected 5V local bus devices.





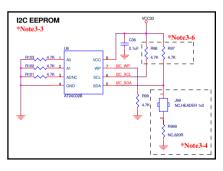


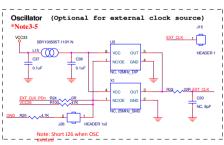


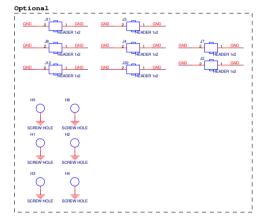


Please adjust the PC-104 connector circuits based on the exact connected local bus devices.

The default EEPROM contents of AX99100 Local Bus demo board are for async SRAM module board. Please contact ASIX support (support@asix.com.tw) to get correct EEPROM contents for your specific AX99100 local bus applications. IMPORTANT!! To program wrong EEPROM contents might cause your AX99100 board cannot work normally.







Please reserve the SDA pull down circuit location on your PCB board in order to disable auto-loading EEPROM while the EEPROM contents are wrong.

When external Oscillator existed, the EXT_CLK_PDn pin should be pull down by external resistor (i.e. short J26). Otherwise, please pull-up by external resistor to indicate NO external Oscillator existed.

Please still pull-up SCL and SDA to 3.3v with 4.7k ohm if the EERPOM is empty.

ASIX ELECTRONICS CORPORATION AX99100/EEPROM/PC-104 Interface Custom AX99100 Local Bus Demo Board

5 4 3 2 1

Revision History

Revision	Date	Comment
V1.00	2016/03/18	Initial release.
V1.01	2016/04/22	1.Mount R104 and R105 with 50 Ohm resistors in page 2.
V1.02	2020/11/12	1.Added Noted 3-6 in Page 3. 2.Removed PCIe_REFCLK of resistors and capacitors.

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