

XR21V141X EEPROM Programmer Manual

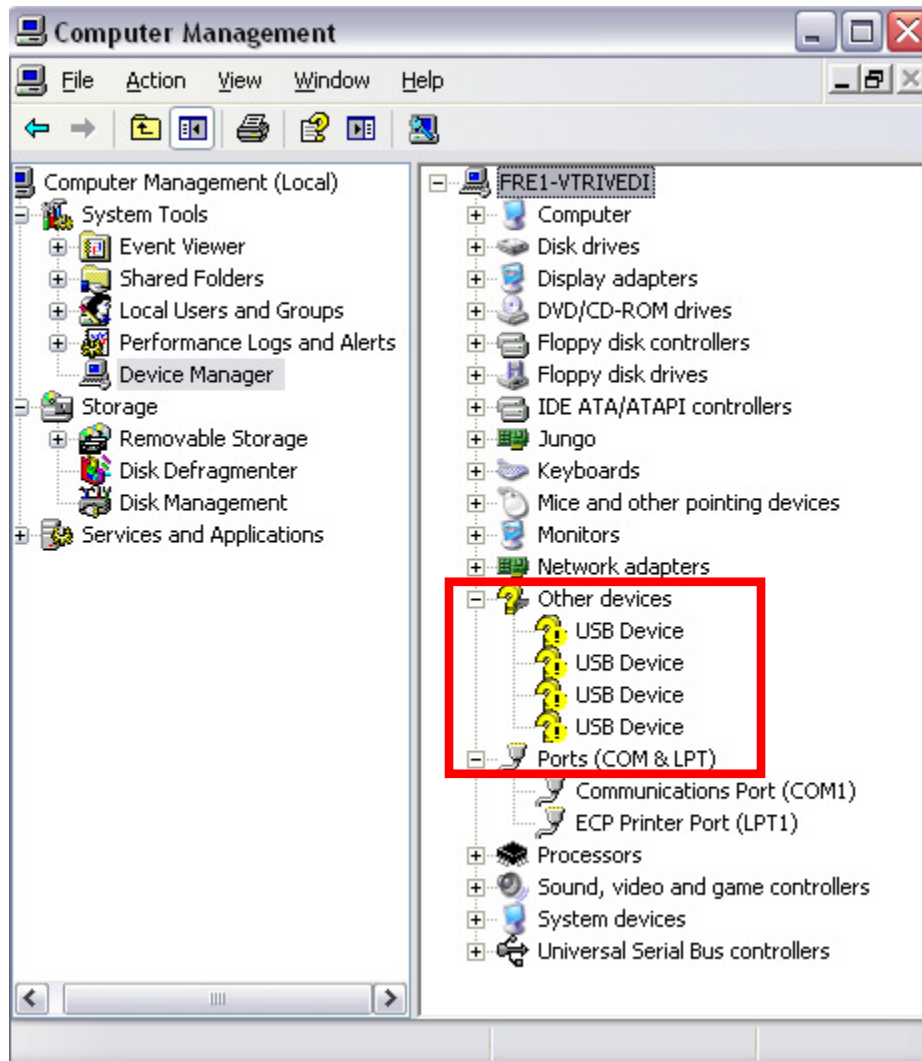
A) Hardware Configuration:

Before attempting to program the EEPROM ensure that hardware is properly configured. Verify the following:

- 1) The I2C SDA and SCL signals are connected from the XR21V141X device to the EEPROM, and
- 2) Both the SDA and SCL signals should have a pull-up resistor, typically 4.7k – 10k ohms
- 3) The EEPROM device address must be set for 0xA0, otherwise the GUI will not work.

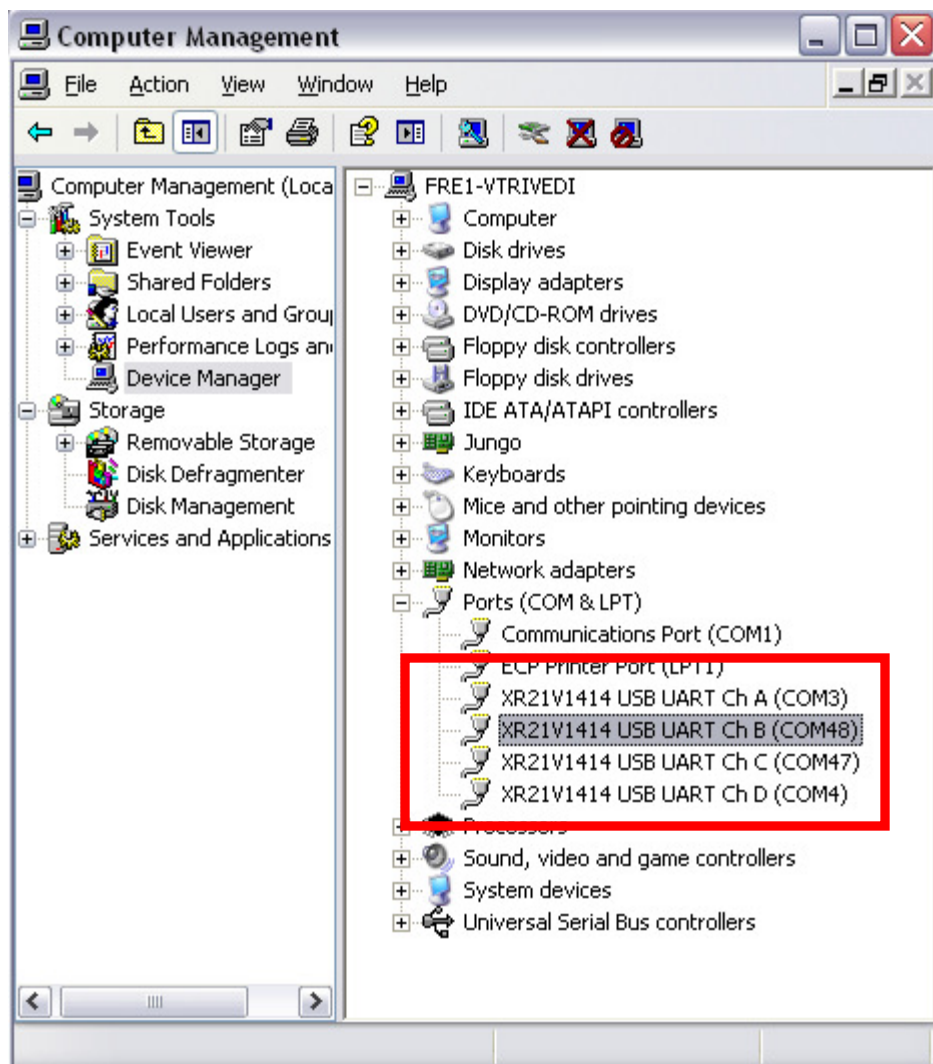
B) Steps to install Drivers for XR21V141X device on the Host:

- 1) Connect XR21V141X to host
- 2) In device manager you should be able to see Exar devices in Unknown Devices or Other Devices



- 3) If driver doesn't install automatically, you can install them manually. In order to install drivers manually, In device manager "Right Click" on "Unknown Device" and select "Update Drivers".
- 4) Select option "Install from a list or specific location (Advanced)" and click "Next".
- 5) Select option "Don't search. I will choose the driver to install" and click "Next".
- 6) Click "Have Disk..." and point to the "xr21v141x.inf" file on your system.
- 7) Once driver is correctly installed the XR21V141X device should be enumerated under COM ports.

Below example shows the enumeration of XR21V1414 after the Drivers are properly installed



C) Steps to Use EEPROM programmer:

- 1) Double click in the EEPROM programmer.



- 2) Select any of XR21V141X COM port(s) and Click “Connect button”.

	ADDRESS	READ VALUES	VALUES TO WRITE	
VID LSB	0x00	0x00	0xE2	Write
VID MSB	0x01	0x00	0x04	Write
PID LSB	0x02	0x00	0xFF	Write
PID MSB	0x03	0x00	0x14	Write
ATTR	0x04	0x00	0xA0	Write
POWER	0x05	0x00	0x32	Write
Reserved	0x06	0x00	0x00	Write
SIGN.	0x07	0x00	0x58	Write

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Clear EEPROM Write All
Default Close

3) "READ VALUES" column should display values in EEPROM

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Disconnect COM12

	ADDRESS	READ VALUES	VALUES TO WRITE	
VID LSB	0x00	0xe2	0xE2	Write
VID MSB	0x01	0x4	0x04	Write
PID LSB	0x02	0x14	0xFF	Write
PID MSB	0x03	0x14	0x14	Write
ATTR	0x04	0xa0	0xA0	Write
POWER	0x05	0x32	0x32	Write
Reserved	0x06	0x0	0x00	Write
SIGN.	0x07	0x58	0x58	Write


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Clear EEPROM Write All
Default Close

- 4) You can modify the EEPROM values by changing the new Values in “VALUES TO WRITE” column and then hit the WRITE button to modify the EEPROM. On successful Write you shall see the newly Written Values in “READ VALUES” column.

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Disconnect COM12

	ADDRESS	READ VALUES	VALUES TO WRITE	
VID LSB	0x00	0xe2	0xE2	Write
VID MSB	0x01	0x4	0x04	Write
PID LSB	0x02	0x24	0x24	Write
PID MSB	0x03	0x14	0x14	Write
ATTR	0x04	0xa0	0xA0	Write
POWER	0x05	0x32	0x32	Write
Reserved	0x06	0x0	0x00	Write
SIGN.	0x07	0x58	0x58	Write


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Clear EEPROM Write All
Default Close

5) You can write all the registers by using “WRITE ALL” button.

	ADDRESS	READ VALUES	VALUES TO WRITE	
VID LSB	0x00	0xe2	0xE2	Write
VID MSB	0x01	0x4	0x04	Write
PID LSB	0x02	0x24	0x24	Write
PID MSB	0x03	0x14	0x14	Write
ATTR	0x04	0xa0	0xA0	Write
POWER	0x05	0x32	0x32	Write
Reserved	0x06	0x0	0x00	Write
SIGN.	0x07	0x58	0x58	Write

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Clear EEPROM Write All
Default Close


Read Values column will display the content of EEPROM after the Write All Operation has been performed successfully.

- 6) "CLEAR ALL" buttons clear the EEPROM and will Write 0xFF to all the EEPROM locations.

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Disconnect COM12

	ADDRESS	READ VALUES	VALUES TO WRITE	
VID LSB	0x00	0xff	0xE2	Write
VID MSB	0x01	0xff	0x04	Write
PID LSB	0x02	0xff	0x24	Write
PID MSB	0x03	0xff	0x14	Write
ATTR	0x04	0xff	0xA0	Write
POWER	0x05	0xff	0x32	Write
Reserved	0x06	0xff	0x00	Write
SIGN.	0x07	0xff	0x58	Write


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Clear EEPROM Write All

Default Close

- 7) “DEFAULT” button sets the default values in “VALUES TO WRITE” column but it does not write to EEPROM, Values will be written in EEPROM only after we hit “WRITE”/”WRITE ALL” button.

	ADDRESS	READ VALUES	VALUES TO WRITE	
VID LSB	0x00	0xff	0xE2	Write
VID MSB	0x01	0xff	0x04	Write
PID LSB	0x02	0xff	0xFF	Write
PID MSB	0x03	0xff	0x14	Write
ATTR	0x04	0xff	0xA0	Write
POWER	0x05	0xff	0x32	Write
Reserved	0x06	0xff	0x00	Write
SIGN.	0x07	0xff	0x58	Write

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Buttons: Disconnect, COM12, Clear EEPROM, Write All, Default, Close

NOTE: - If the VID and/or PID are modified, then the custom driver will no longer work until the .inf file is modified to use the new VID/PID.