# How to Rewrite FPGA Program

You use the application "Vivado" to rewrite the required FPGA.

[Follow the steps below]

•Turn on the power of the board (Connect the board to the PC with a USB cable).  $\downarrow$ 

• Connect the board to the PC with a JTAG cable.

<u>\*Pay attention to the orientation of the connector</u>. See pictures below.



↓ •Open "Vivado" app. (Please download it, if you have not yet.)

#### ↓ •Click [Open Hardware Manager] at the second in Tasks column.



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 $\boldsymbol{\cdot} \mathrm{Click}$  [Open target] at the top of the page.

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Type a Tcl command here		

## ↓ •Click [Auto Connect] in the small window.

#### $\downarrow$ • <u>*Right-click*</u> [xc7a35t\_0] in the Hardware column.

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•Click [Add Configuration Memory Device].
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•Select [s25fl128sxxxxx0-spi-x1\_x2\_x4] as the Configuration Memory.

\* Search it with the filter. Refer to the following.

As an example, in the picture below, Density is set to 128 with the filter to search for it, but you can also use other item, such as setting Manufacture to Spansion.

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28f128m29ev	v-bpi-x8	28f128m29ew	Micron				m29ew	bpi	128	
28f128p30b-b	pi-x16	28f128p30b	Micron				p30	bpi	128	
28f128p30t-b	pi-x16	28f128p30t	Micron				p30	bpi	128	
28f128p33b-b	pi-x16	28f128p33b	Micron				p33	bpi	128	
28f128p33t-b	pi-x16	28f128p33t	Micron				p33	bpi	128	
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mt25ql128-sp	oi-x1_x2_x4	mt25ql128	Micron	n25q12	3-3.3v-spi-x1_;	x2_x4	mt25ql	spi	128	
rnt25qu128-s	pi-x1_x2_x4	mt25qu128	Micron	n25q12	3-1.8v-spi-x1_;	x2_x4	mt25qu	spi	128	
rnt28ew128a-	-bpi-x16	mt28ew128a	Micron				mt28ew	bpi	128	
rnt28ew128a-	-bpi-x8	mt28ew128a	Micron				mt28ew	bpi	128	
rmx25112845g	-spi-x1_x2_x4	mx25l12845g	Macronix	mx25I12	835f-spi-x1_x	2_x4	mx25l	spi	128	
kmx25u12835f	-spi-x1_x2_x4	mx25u12835f	Macronix				mx25u	spi	128	
s25fl128l-spi-	x1_x2_x4	s25fl128l	Spansion				s25flxxxl	spi	128	
s25fl128sxxx	xx0-spi-x1_x2_x4	s25fl128sxxxxx0	Spansion	s25fl127	/s-spi-x1_x2_)	x4	s25flxxxs	spi	128	
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•When you click [OK], a small window for confirmation opens, so click that [OK] too.

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•Select the required file as the configuration file.

↓ •Click [OK] to start rewriting the program.

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•After it is complete, disconnect the USB cable to finish.

If you have any problems or questions, please contact NetVision. <a href="mailto:sv-support@net-vision.co.jp">sv-support@net-vision.co.jp</a>