



九齊科技股份有限公司
Nyquest Technology Co., Ltd.

User Manual

Hardware Developing Tool (Appendix)

Accessory for Writer

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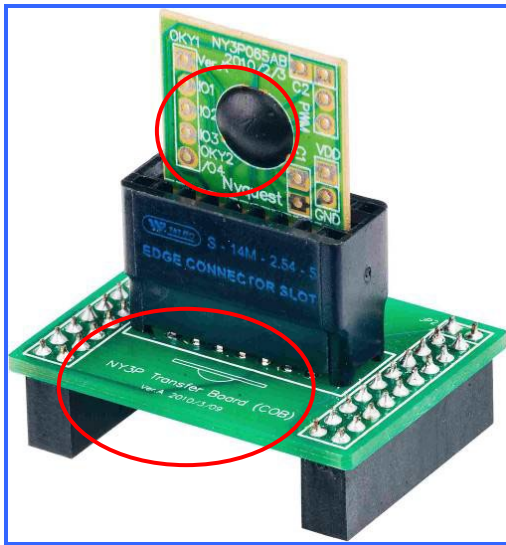
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1 NX_Programmer / Smart_Writer Ver.A / MCU_Writer Ver.A Transfer Board and Converter Board

NX_Programmer hardware uses various types of transfer boards and converter boards to support different packaging types of OTP IC or SPI Flash.

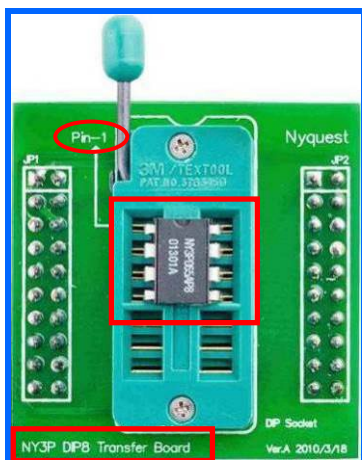
1.1 COB Transfer Board

COB transfer board supports gold finger type COB provided by Nyquest and PCB layout by customer. Please check the indicator on the transfer board when inserting COB, and make sure the COB is facing in the correct direction.

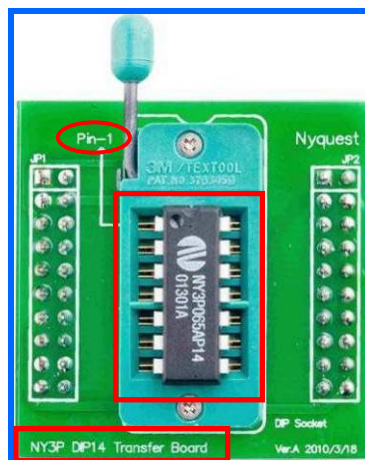


1.2 DIP8/DIP14/DIP18/DIP28 Transfer Board

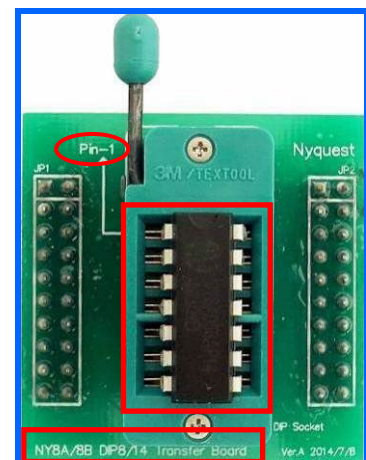
DIP transfer board supports 8-pin DIP, 14-pin DIP, 18-pin DIP and 28-pin DIP OTP IC provided by Nyquest. The Textool socket is 14-pin or 28-pin type. Please check the first lead mark on IC package (top left side) when inserting IC into Textool socket, and align it to the top.



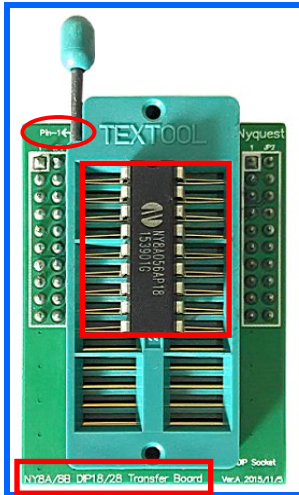
DIP8 Transfer Board



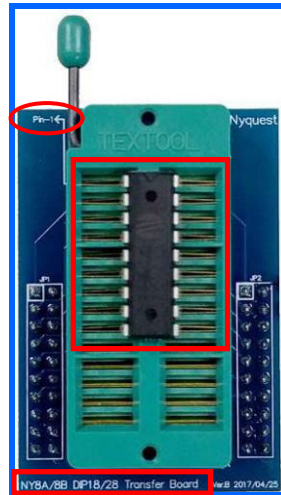
DIP14 Transfer Board



NY8A/8B DIP8/14
Transfer Board

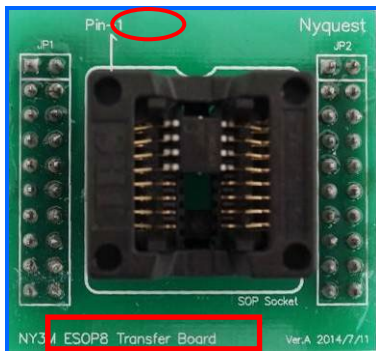


NY8A/8B DIP18/28
Transfer Board



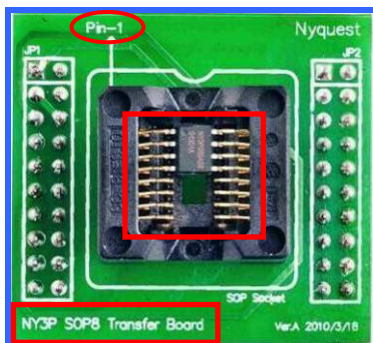
NY8A/8B DIP18/28
Transfer Board (藍色)

1.3 ESOP8 Transfer Board

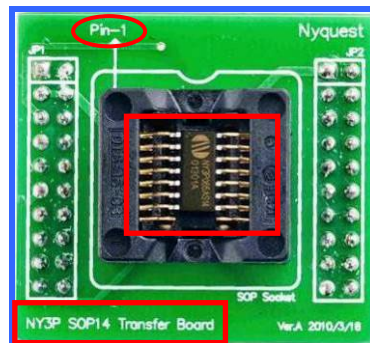


1.4 SOP8/SOP14/SOP16/SOP18/SOP24/SOP28 Transfer Board

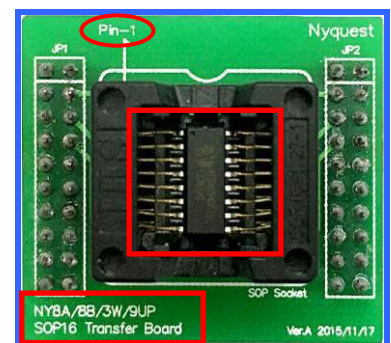
◦ SOP transfer board supports 8-pin SOP, 14-pin SOP, 16-pin SOP, 18-pin SOP, 24-pin SOP and 28-pin SOP OTP IC package provided by Nyquest. The sockets are 16-pin type (for 8-pin SOP, 14-pin SOP and 16-pin SOP) and 28-pin type (for 18-pin SOP, 24-pin SOP and 28-pin SOP). Please check the first lead mark on IC package (top left side) when inserting IC into the socket, and align it to the top.



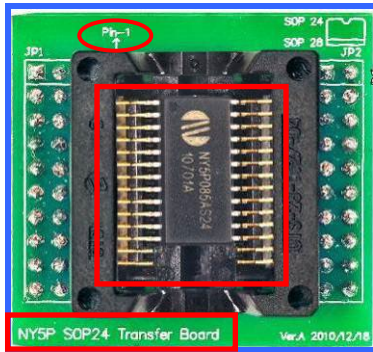
SOP8 Transfer Board



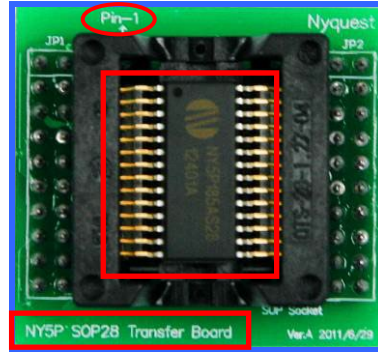
SOP14 Transfer Board



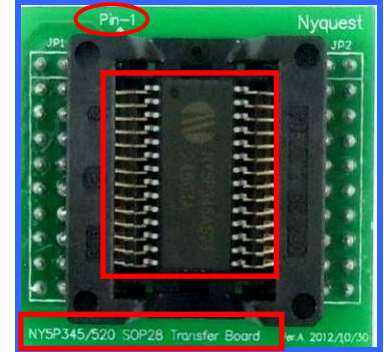
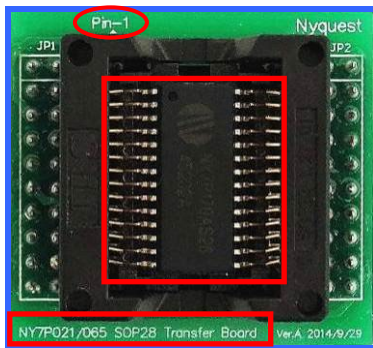
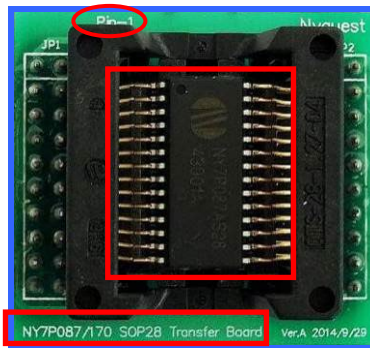
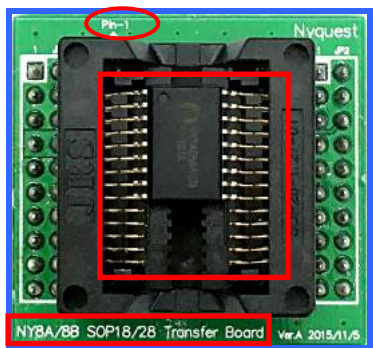
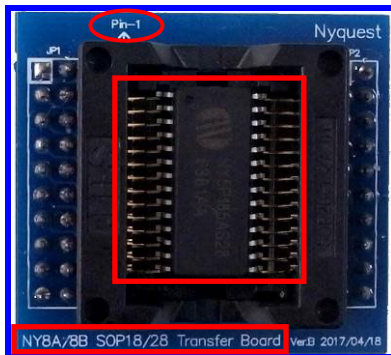
SOP16 Transfer Board



SOP24 Transfer Board

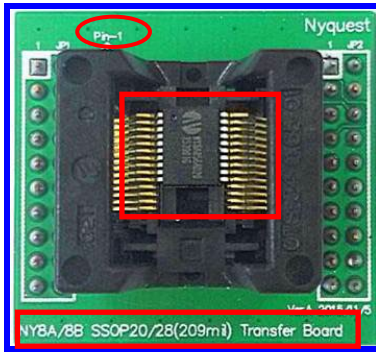


SOP28 Transfer Board

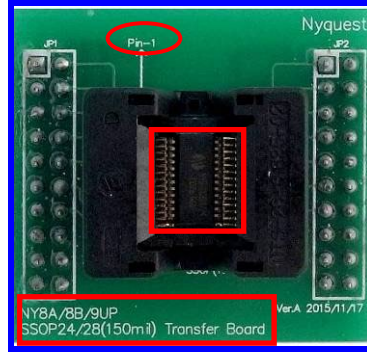

SOP28 Transfer Board for
NY5P345AS28/NY5P520AS28

SOP28 Transfer Board for
NY7P021AS28/NY7P065AS28

SOP28 Transfer Board for
NY7P087AS28/NY7P170AS28

SOP18/28 Transfer Board for
NY8A/8B Series

SOP18/28 Transfer Board for
NY8A/8B Series (Blue)

1.5 SSOP20/SSOP24/SSOP28 Transfer Board

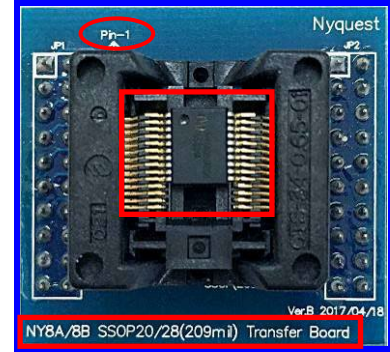
SSOP transfer board supports 20-pin SSOP / 28-pin SSOP (209mil), 24-pin SSOP / 28-pin SSOP (150mil) OTP IC package provided by Nyquest. The sockets are 28-pin type (for 20-pin / 24-pin / 28-pin SSOP). Please check the first lead mark on IC package (top left side) when inserting IC into the socket, and align it to the top.



SSOP20/28 (209mil) Transfer
Board for NY8A/8B Series



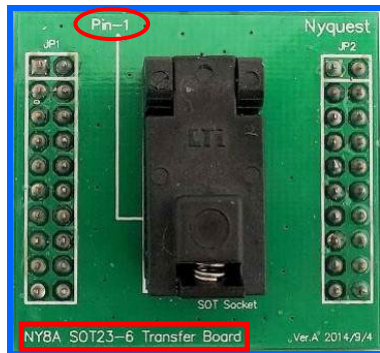
SSOP24/28 (150mil) Transfer
Board for NY8A/8B/9UP Series



SSOP20/28 (209mil) Transfer
Board for NY8A/8B Series (藍色)

1.6 SOT23-6 Transfer Board

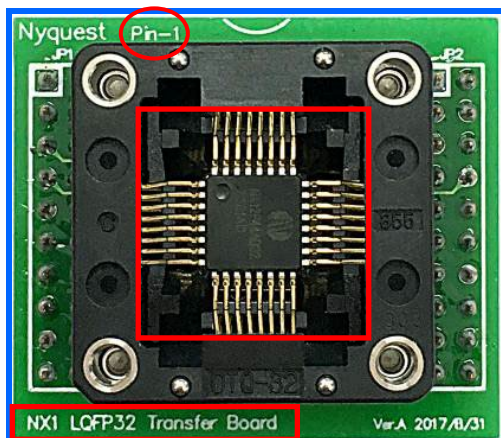
SOT23-6 transfer board supports 2SOT23-6 (63mil) OTP IC package provided by Nyquest. The socket is a 6-pin type. Please check the first lead mark on IC package (top left side) when inserting IC into the socket, and align it to the top.



SOT23-6 Transfer Board
for NY8A series

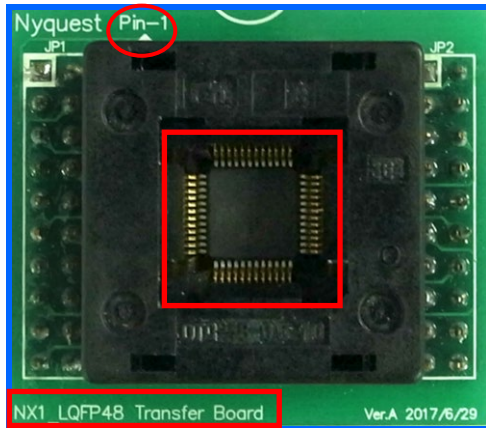
1.7 LQFP32 Transfer Board

LQFP transfer board supports 32-pin LQFP OTP IC package provided by Nyquest. And the cooperating Package OTP IC is NX12P34AQ32 / NX12P44AQ32 / NX12P54AQ32 / NX12P64AQ32 / NX13P34AQ32 / NX13P44AQ32 / NX13P54AQ32 / NX13P64AQ32 / NX12FS51AQ32 / NX13FS51AQ32.



1.8 LQFP48 Transfer Board

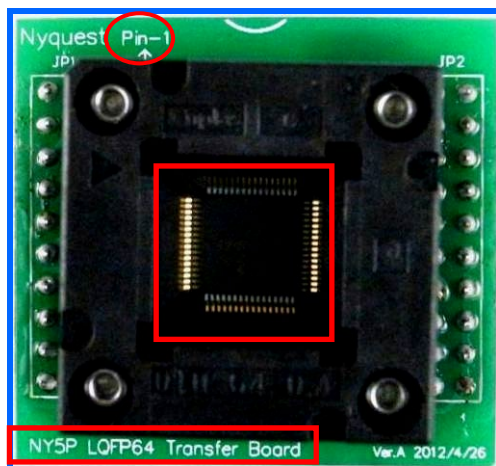
LQFP transfer board supports 48-pin LQFP OTP IC package provided by Nyquest. And the cooperating Package OTP IC is NX11P22AQ48, NY5P520JQ48, NY5P720JQ48.



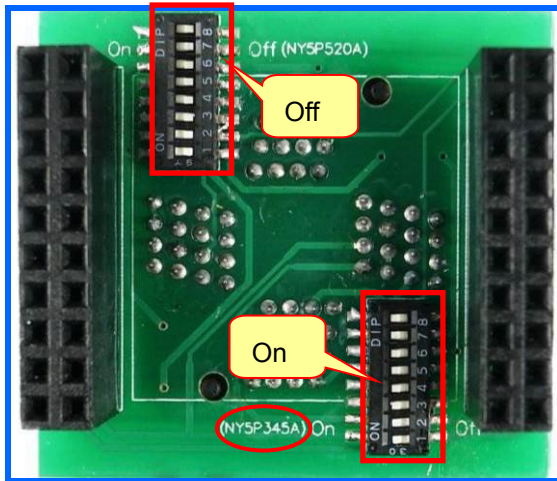
1.9 LQFP64 Transfer Board

LQFP transfer board supports 64-pin LQFP OTP IC package provided by Nyquest. And the cooperating Package OTP IC is NY5P345AQ64 / NY5P520AQ64 / NY5P720AQ64 / NY7P087AQ64 / NY7P170AQ64 / NY7P345AQ64 / NY7P520AQ64 / NX12P34AQ64 / NX12P44AQ64 / NX12P54AQ64 / NX12P64AQ64 / NX13P34AQ32 / NX13P44AQ32 / NX13P54AQ32 / NX13P64AQ32 / NX12FS51AQ32 / NX13FS51AQ32. Please check the first lead mark on IC package (top left side) when inserting IC into Textool socket.

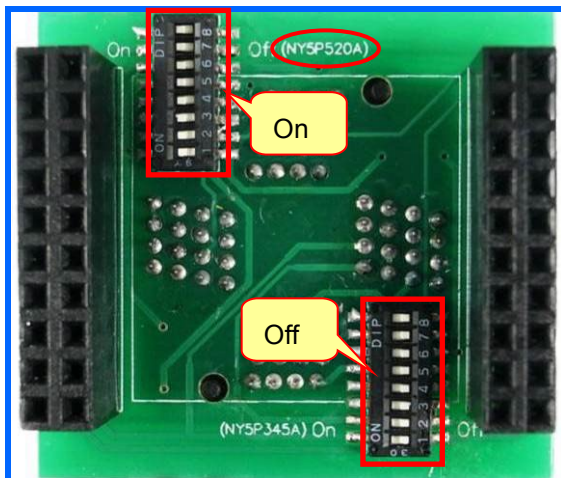
When user uses NY5P LQFP64 transfer board for programming, please set the DIP switches in accordance with IC type on the back of transfer board



When user wants to compile the OTP IC of NY5P345AQ64 via LQFP64, please turn on all NY5P345A DIP switches (8 pins) on the bottom right corner. Meanwhile, user has to turn off the DIP switches on the top left corner. As shown below.

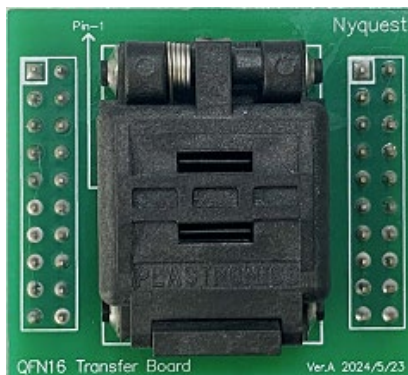


When user wants to compile the OTP IC of NY5P520AQ64 via LQFP64, please turn on all NY5P520A DIP switches (8 pins) on the top left corner. Meanwhile, user has to turn off the DIP switches on the bottom right corner. As shown below.



1.10 QFN16 Transfer Board

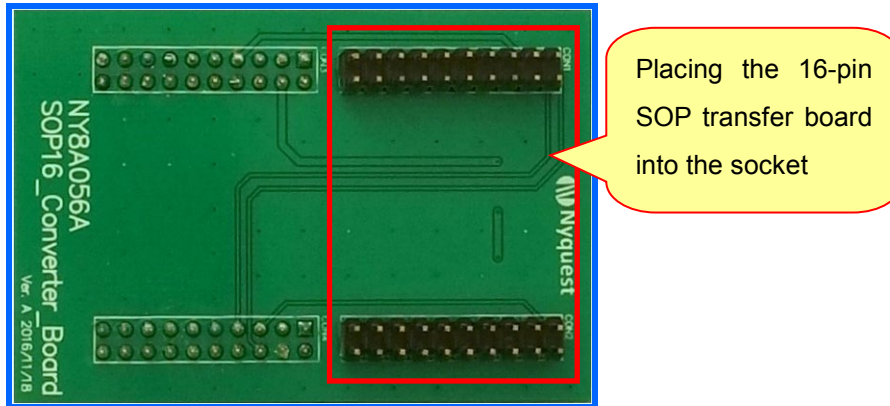
QFN16 transfer board supports 16-pin QFN OTP IC package provided by Nyquest. The socket is a 16-pin type. Please check the first lead mark on IC package (top left side) when inserting IC into the socket, and align it to the top.



QFN16 Transfer Board

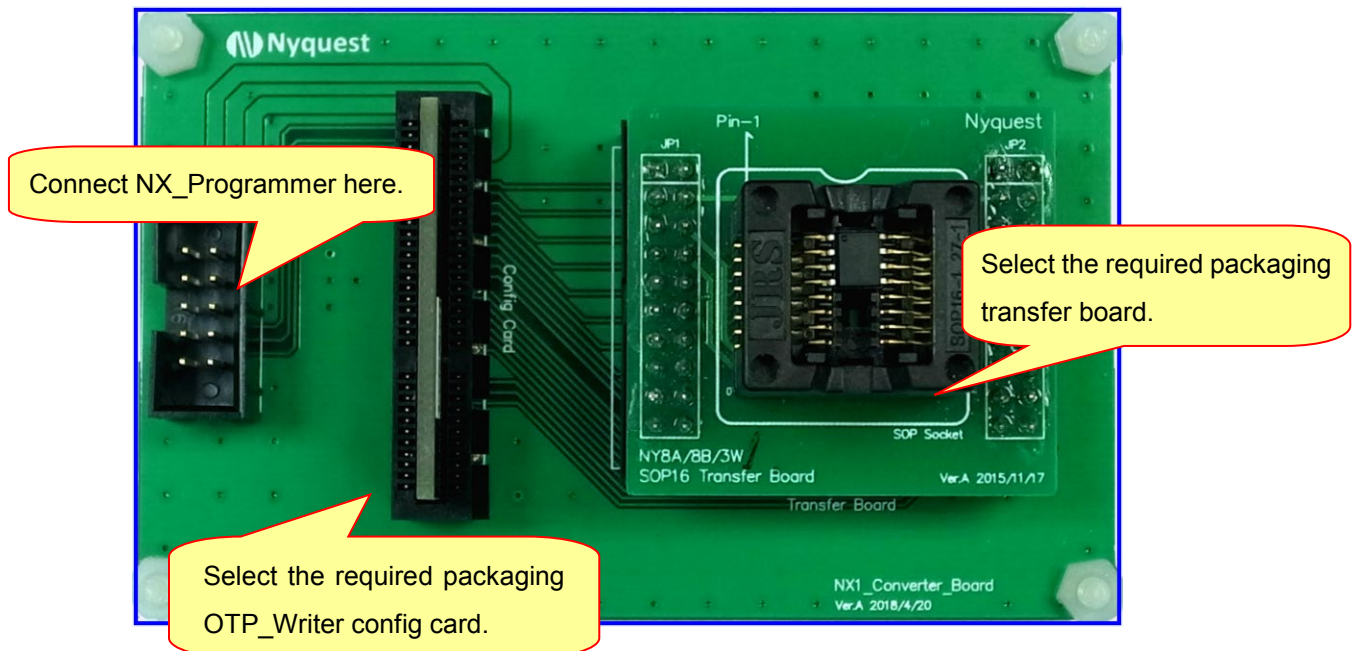
1.11 NY8A056A SOP16 Converter Board

When using NY8A056A SOP16 Converter Board to program the OTP IC of NY8A056A SOP16, please place the 16-pin SOP transfer board into the socket. And then insert NY8A053 DIP / SOP config card to start programming.



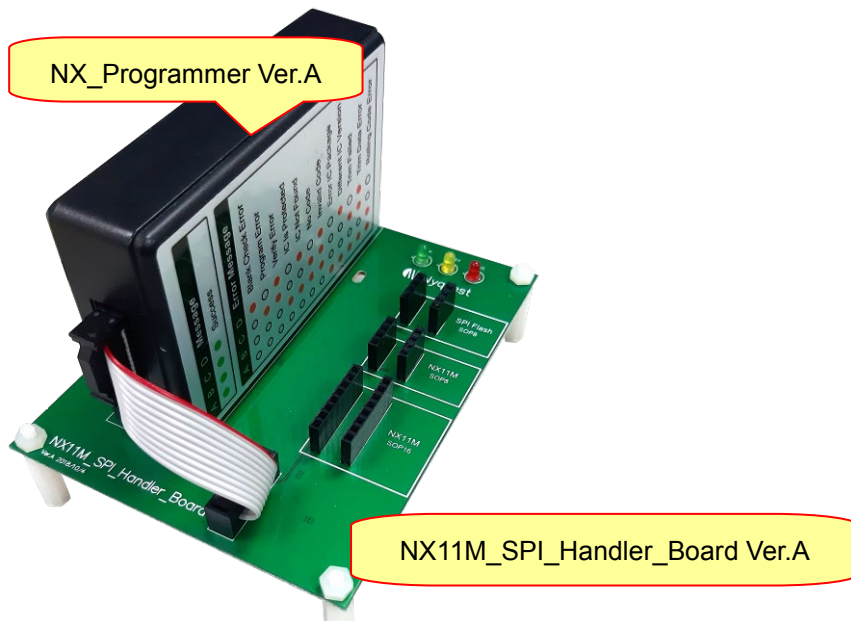
1.12 X1 Converter Board (Only Available for NX1xPxx, NX11M2x and NX11M5x)

When using NX_Programmer Ver.A to write SOP8/SOP16/SSOP24/LQFP32/LQFP48/LQFP64 and COB of NX1 packaging, it needs to select the required packaging OTP_Writer config card and transfer board, and put them on NX1 converter board. NX_Programmer Ver.A can then write NX1.

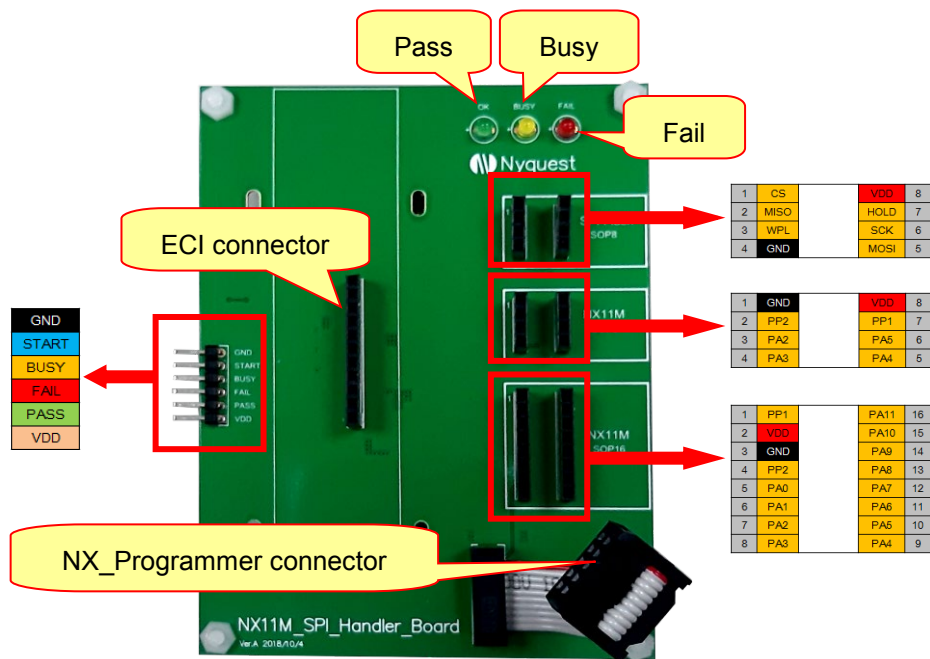


1.13 NX11M_SPI_Handler Board (Only Available for NX1xPxx, NX11M2x and NX11M5x)

When using NX_Programmer Ver.A to write NX11M SOP8/SOP16 via an automated programmer, it needs to work with NX11 SPI Handler Board to complete programming. The NX_Programmer Ver.A can be placed and fixed on the board by inserting into the ECI socket.

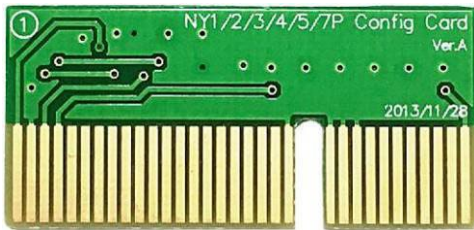


Two connecting interfaces of NX11 SPI Handler Board, programming probe interface and external control interface, need to be connected to the Automated Programmer. User can select the corresponding socket based on the IC type and package type, and attach the programming probe interface pin by pin. The control interface of Automated Programmer includes VDD / GND / Start / Pass / Fail / Busy signals, and they should be connected to the VDD / GND / Start / Pass / Fail / Busy signals of the NX11 SPI Handler Board accordingly. Besides, the NX11 SPI Handler Board provides Pass/Busy/Fail LED indicators allow the user to know the current programming status

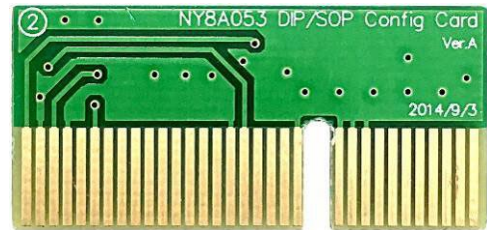


2 Config Card for Writer

Writer supports config card of different OTP IC series. The current IC series config cards are below.



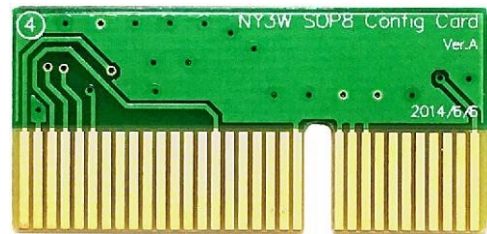
NY1/2/3/4/5/7P Config Card



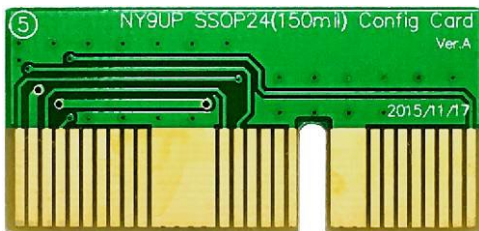
NY8A053 DIP/SOP Config Card



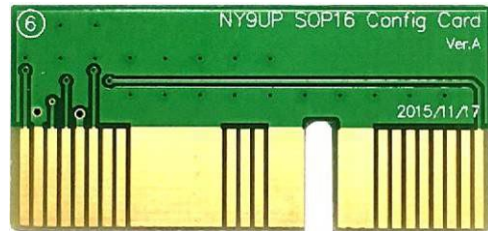
NY8A051 DIP/SOP/SOT Config Card



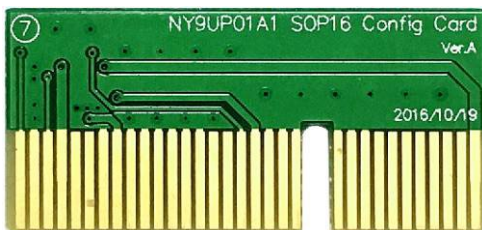
NY3W SOP Config Card



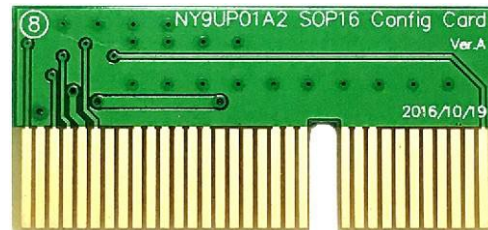
NY9UP SSOP24 Config Card



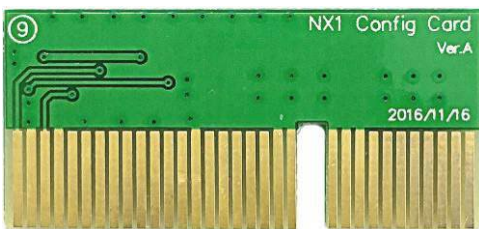
NY9UP SOP16 Config Card



NY9UP01A1 SOP16 Config Card



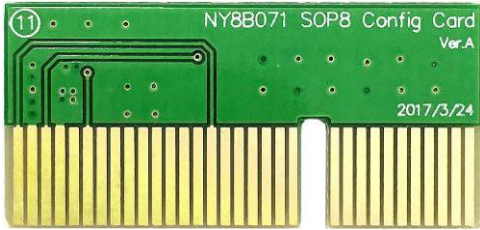
NY9UP01A2 SOP16 Config Card



NX1 Config Card



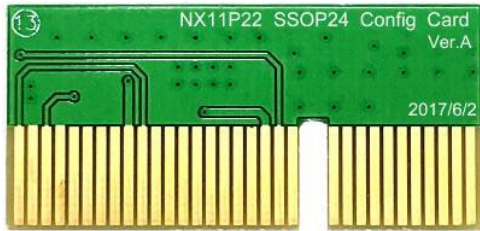
NY8B071 DIP/SOP14 Config Card



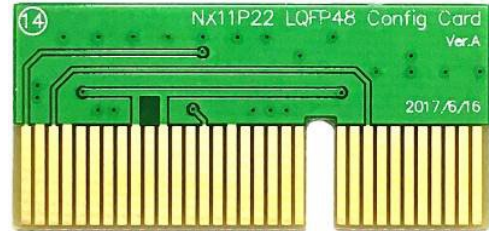
NY8B071 SOP8 Config Card



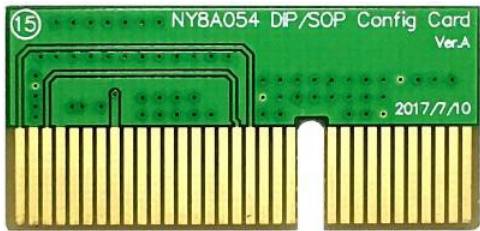
NY8A056 DP/SOP18/SSOP20 Config Card



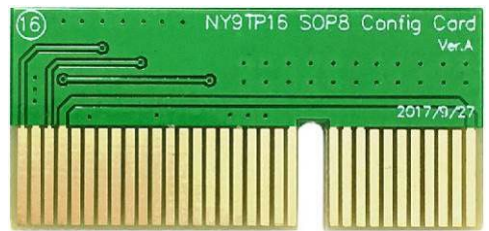
NX11P22 SSOP24 Config Card



NX11P22 LQFP48 Config Card



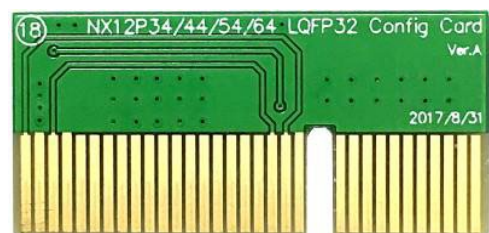
NY8A054 DP/SOP Config Card



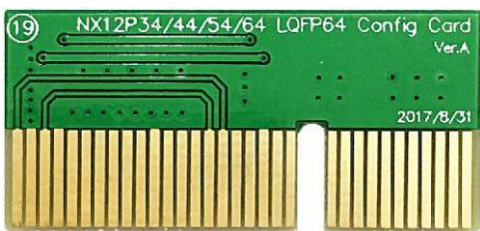
NY9TP16 SOP8 Config Card



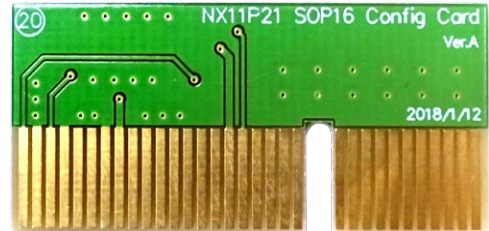
NY9TP16 SOP16/SOP28/SSOP24 Config Card



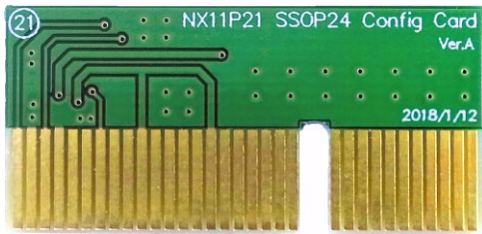
NX12P34/44/54/64 LQFP32 Config Card



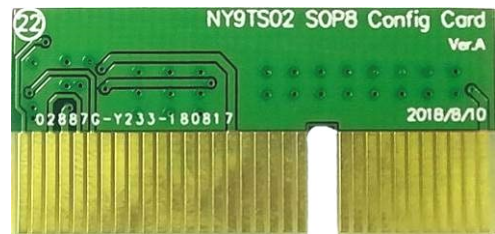
NX12P34/44/54/64 LQFP64 Config Card



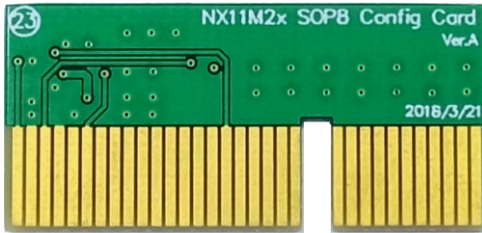
NX11P21 SOP16 Config Card



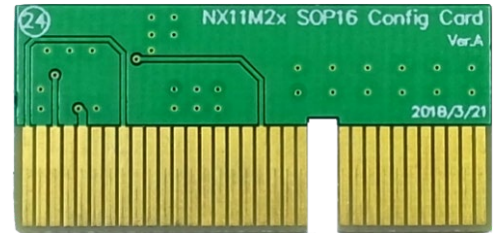
NX11P21 SSOP24 Config Card



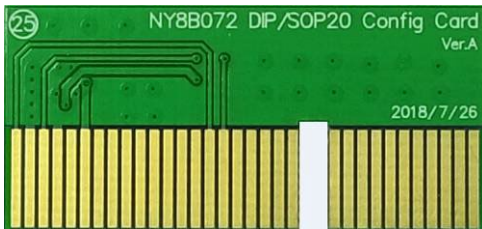
NY9TS02 SOP8 Config Card



NX11M2x SOP8 Config Card



NX11M2x SOP16 Config Card



NY8B072 DIP/SOP20 Config Card



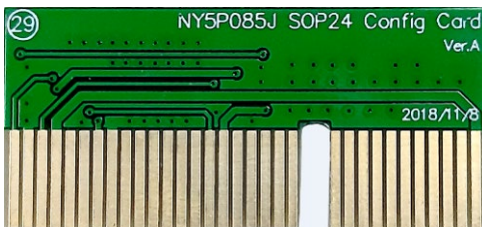
NX12P34/54/64 SSOP24 Config Card



NX12P34/54/64 LQFP48 Config Card



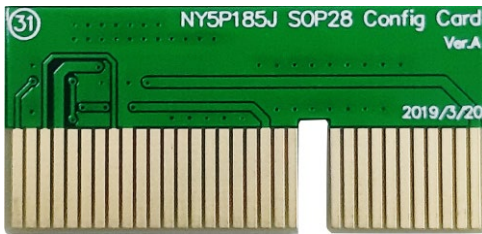
NY6P085J SOP24 Config Card



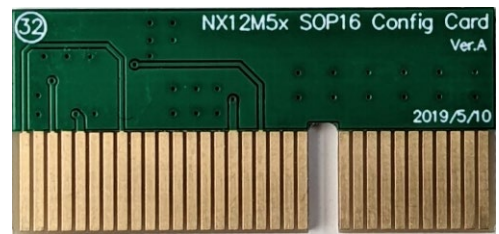
NY5P085J SOP24 Config Card



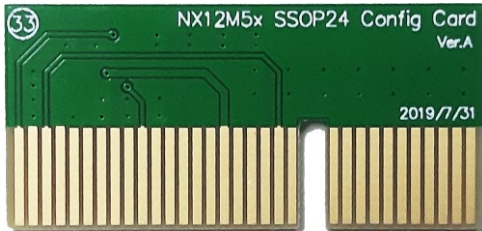
NY9UP08A SOP16 Config Card



NY5P185J SOP28 Config Card



NX12M5xA SOP16 Config Card



NX12M5x SSOP24 Config Card



NY5P1K2/720/520J LQFP48 Config Card



NY6P345/185J SOP28 Config Card



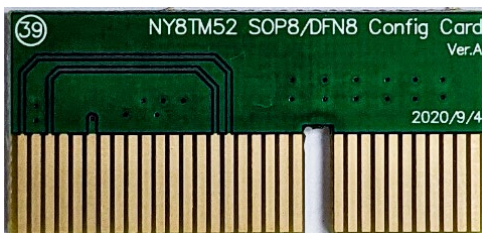
NY8BM72 SOP20 Config Card



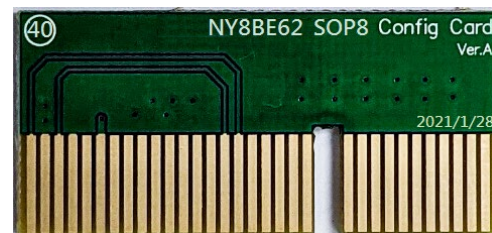
NY8BM72 SOP16 Config Card



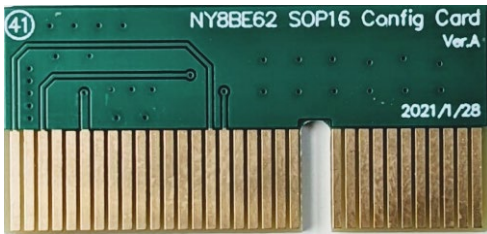
NY6P025A SOP14 Config Card



NY8TM52 SOP8/DFN8/COB Config Card



NY8BE62 SOP8 Config Card



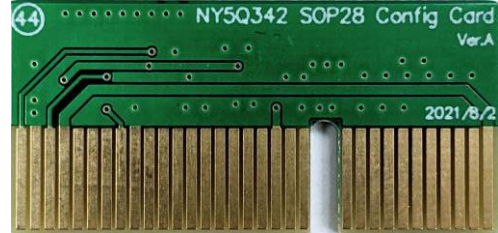
NY8BE62 SOP16 Config Card



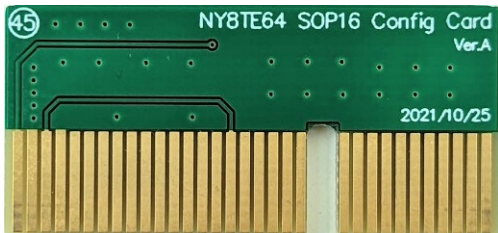
NY8TE64 SOP20 Config Card



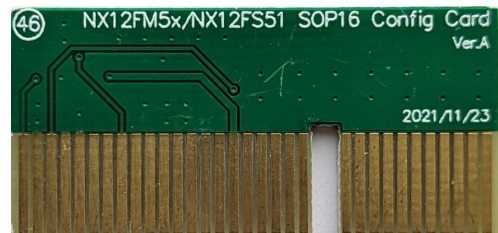
NY5Q060/092/172 SSOP24 Config Card
NY5Q020/040 SOP14



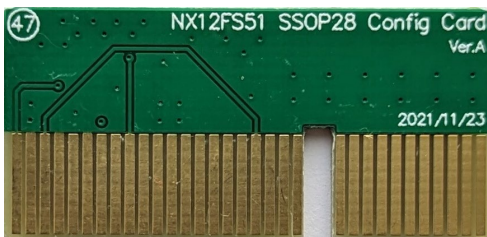
NY5Q342 SOP28 Config Card



NY8TE64 SOP16 Config Card



NX12FM5x/NX12FS51 SOP16 Config Card



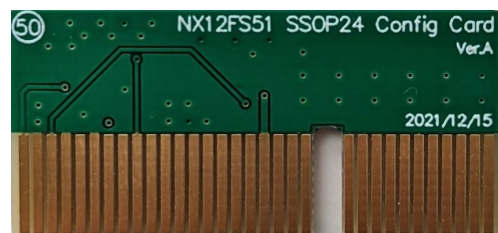
NX12FS51 SSOP28 Config Card



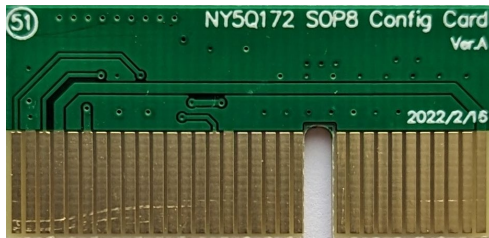
NX12FS51 LQFP32 Config Card



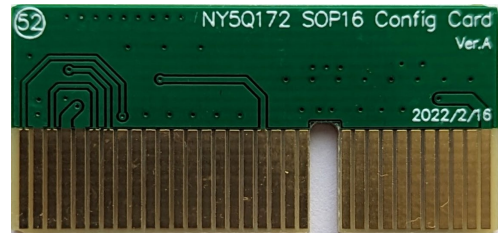
NX12FM5x SSOP28 Config Card



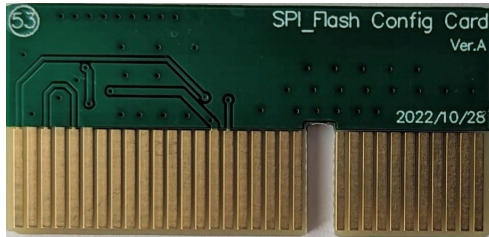
NX12FS51 SSOP24 Config Card



NY5Q172 SOP8 Config Card



NY5Q172 SOP16 Config Card



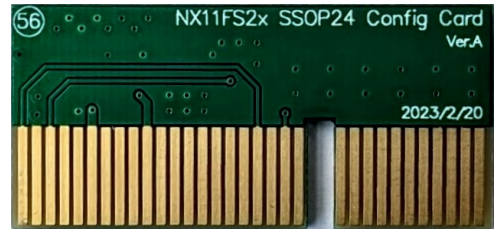
SPI_Flash SOP8 Config Card



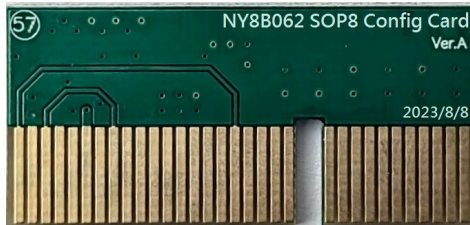
NX11FS2x SOP8 Config Card



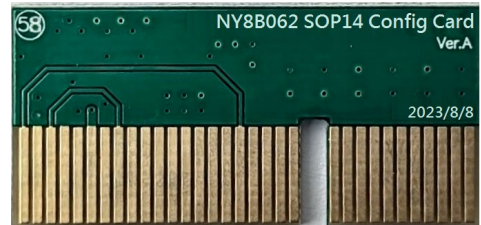
NX11FS2x SOP16 Config Card



NX11FS2x SSOP24 Config Card



NY8B062 SOP8 Config Card



NY8B062 SOP14 Config Card



NY3P016/035 SOT23-6 Config Card



NY8BM61 QFN16 Config Card



NY8BM62 SOP8 Config Card

3 The Corresponding Table of OTP IC, Transfer Board and Config Card

3.1 OTP_Writer (Ver.C) Hardware Corresponding Table

The following table shows the corresponding transfer boards and config cards of OTP IC to support different IC series.

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NY1P	NY1P207AB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY1P207AS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY1P207AP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY1P207AS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY1P207AP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY2P	NY2P010AB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY2P010AS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY2P010AP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY2P010AS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY2P010AP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY3P	NY3PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxxC	COB		NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxxS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY3PxxxxP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY3PxxxxS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY3PxxxxP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY3M	NY3MxxxxB	COB1	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY3MxxxxC	COB2			
	NY3MxxxxE8	ESOP8		NY3M ESOP8 Transfer Board Ver.A	
NY3W	NY3WxxxxS8	SOP8	4. NY3W SOP Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	
NY4P	NY4PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY4PxxxxS14	SOP14		NY4P SOP14 Transfer Board Ver.A	
	NY4PxxxxP14	DIP14		NY4P DIP14 Transfer Board Ver.A	

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NY5P	NY5PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY5PxxxxS24	SOP24		NY5P SOP24 Transfer Board Ver.A	
	NY5P185AS28	SOP28		NY5P SOP28 Transfer Board Ver.A	
	NY5PxxxxS28	SOP28		NY5P345/520 SOP28 Transfer Board Ver.A	
	NY5PxxxAQ64	LQFP64		NY5P LQFP64 Transfer Board Ver.A	
	NY5PxxxJS24	SOP24	29. NY5P085J SOP24 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY5PxxxJS28	SOP28	30. NY5P185J SOP28 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY5PxxxJQ48	LQFP64	34. NY5P1K2/720/520J LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
NY6P	NY6PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY6PxxxJS24	SOP24	28. NY6P085J SOP24 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY6PxxxJS28	SOP28	35. NY6P345/185J SOP28 Config Card		
NY7P	NY7PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY7PxxxxS28	SOP28		NY7P021/65 SOP28 Transfer Board Ver.A NY7P087/170 SOP28 Transfer Board Ver.A	
	NY7PxxxQ64	LQFP64		NY7P LQFP64 Transfer Board Ver.A	
NY8A051x	NY8A051xS6	SOT23-6	3. NY8A051 DIP/SOP/SOT Config Card	NY8A SOT23-6 Transfer Board Ver.A	
	NY8A051xP8	DIP8		NY8A/8B DIP8/14 Transfer Board Ver.A	DIP8/14 Transfer Board Ver.A
	NY8A051xS8	SOP8		NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY8A053x	NY8A053xS8	SOP8	3. NY8A051 DIP/SOP/SOT Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8A053xS14	SOP14	2. NY8A053 DIP/SOP Config Card		
	NY8A053xP14	DIP14		NY8A/8B DIP8/14 Transfer Board Ver.A	DIP8/14 Transfer Board Ver.A
NY8A054x	NY8A054xS8	SOP8	3. NY8A051 DIP/SOP/SOT Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8A054xS16	SOP16	15. NY8A054 DIP/SOP Config Card		
NY8A056x	NY8A056xS16	SOP16	2. NY8A053 DIP/SOP Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board + NY8A056A SOP16_Converter_Board Ver.A	
	NY8A056xS18	SOP18	15. NY8A056 DIP/SOP16/SSOP20	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NY8A056xP18	DIP18	2. NY8A053 DIP/SOP Config Card	NY8A/8B DIP18/28 Transfer Board Ver.A	DIP18/28 Transfer Board Ver.A
	NY8A056xD20	SSOP20		NY8A/8B SSOP20/28 (209mil) Ver.A Transfer Board	SSOP20/28 (209mil) Transfer Board Ver.A
NY8B062x	NY8B062xS8	SOP8	11. NY8B071 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8B062xS16	SOP16	10. NY8B071 DIP/SOP14 Config Card		
NY8B071x	NY8B071xS8	SOP8	11. NY8B071 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8B071xS14	SOP14	10. NY8B071 DIP/SOP14 Config Card		
	NY8B071xP14	DIP14	10. NY8B071 DIP/SOP14 Config Card	NY8A/8B DIP8/14 Transfer Board Ver.A	DIP8/14 Transfer Board Ver.A
NY8B072x	NY8B072xS20	SOP20	25. NY8B072 DIP/SOP20 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY8B072xP20	DIP20		NY8A/8B DIP18 / 28 Transfer Board Ver.B	DIP18 / 28 Transfer Board Ver.A
NY9UP01x	NY9UP01A1	SOP16	7. NY9UP01A1 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY9UP01A2	SOP16	8. NY9UP01A2 SOP16 Config Card		
NY9UP64x	NY9UP64xS16	SOP16	6. NY9UP SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY9UP64xU24	SSOP24	5. NY9UP SSOP24(150mil) Config Card	NY8A/8B/9UP SSOP 24/28(150mil) Transfer Board Ver.A	SSOP 24/28(150mil) Transfer Board Ver.A
NY9UP08x	NY9UP08xS16	SOP16	30. NY9UP08 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY9TP16x	NY9TP16AB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY9TP16xS8	SOP8	16. NY9TP16 SOP8 Config Card	NY3P SOP8 Transfer Board Ver.A (將 SOP Socket Pin-1 與 Pin-4 短路)	
	NY9TP16xS16	SOP16	17. NY9TP16 SOP16/SOP28/SSOP24 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY9TP16xU24	SSOP24		NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP 24/28(150mil) Transfer Board Ver.A
	NY9TP16xS28	SOP28		NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
NY9TS02x	NY9TS02xS8	SOP8	22. NY9TS02 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NX1xPxx	NX11PxxAB	COB	9. NX1 Config Card	NX1 COB Transfer Board Ver.A	
	NX12PxxAB	COB			
	NX13PxxAB	COB			

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NX11P21xS16	SOP16	20. NX11P21 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11P21xU24	SSOP24	21. NX11P21 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil)Transfer Board Ver.A
	NX11P22xU24	SSOP24	13. NX11P22 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil)Transfer Board Ver.A
	NX12P64xU24	SSOP24	26. NX12P34/54/64 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil)Transfer Board Ver.A
	NX13P64xU24	SSOP24	26. NX12P34/54/64 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil)Transfer Board Ver.A
	NX11P22xQ48	LQFP48	14. NX11P22 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
	NX12P44xQ32	LQFP32	18. NX12P34/44/54/64 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX12P44xQ64	LQFP64	19. NX12P34/44/54/64 LQFP64 Config Card	NX1 LQFP64 Transfer Board Ver.A	LQFP64 Transfer Board Ver.A
	NX13P44xQ32	LQFP32	18. NX12P34/44/54/64 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX13P44xQ64	LQFP64	19. NX12P34/44/54/64 LQFP64 Config Card	NX1 LQFP64 Transfer Board Ver.A	LQFP64 Transfer Board Ver.A
	NX12P64xQ48	LQFP48	27. NX12P34/54/64 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
	NX13P64xQ48	LQFP48	27. NX12P34/54/64 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
NX11M2x	NX11M2xAS8	SOP8	23. NX11M2x SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11M2xAS16	SOP16	24. NX11M2x SOP16 Config Card		
NX12M5x	NX12M5xAS16	SOP16	32. NX12M5x SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A

3.2 NY8-OTP_Writer (Ver.B) / MCU_Writer (Ver.A) Hardware Corresponding Table

The following table shows the corresponding transfer boards and config cards of OTP IC to support different IC series.

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NY8A050x	NY8A050xS6	SOT23-6	3. NY8A051 DIP/SOP/SOT Config Card	NY8A SOT23-6 Transfer Board Ver.A	
	NY8A050xS8	SOP8		NY8A / NY8B / NY3W / NY9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY8A051x	NY8A051xS6	SOT23-6	3. NY8A051 DIP/SOP/SOT Config Card	NY8A SOT23-6 Transfer Board Ver.A	
	NY8A051xS8	SOP8		NY8A / NY8B / NY3W / NY9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8A051xP8	DIP8		NY8A/8B DIP8/14 Transfer Board Ver.A	DIP8/14 Transfer Board Ver.A
NY8AE51x	NY8AE51xS6	SOT23-6	3. NY8A051 DIP/SOP/SOT Config Card	NY8A SOT23-6 Transfer Board Ver.A	
	NY8AE51xS8	SOP8	3. NY8A051 DIP/SOP/SOT Config Card	NY8A / NY8B / NY3W / NY9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8AE51xP8	SOP8	3. NY8A051 DIP/SOP/SOT Config Card	NY8A / NY8B / NY3W / NY9UP DIP18/28 Transfer Board Ver.A	DIP18/28 Transfer Board Ver.A
NY8A053x	NY8A053xS8	SOP8	3. NY8A051 DIP/SOP/SOT Config Card	NY8A / NY8B / NY3W / NY9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8A053xS14	SOP14	2. NY8A053 DIP/SOP Config Card		
	NY8A053xP14	DIP14		NY8A/8B DIP8/14 Transfer Board Ver.A	DIP8/14 Transfer Board Ver.A
NY8A054x	NY8A054xS8	SOP8	3. NY8A051 DIP/SOP/SOT Config Card	NY8A / NY8B / NY3W / NY9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8A054xS16	SOP16	15. NY8A054 DIP/SOP Config Card		
NY8A056x	NY8A056xS16	SOP16	2. NY8A053 DIP/SOP Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board + NY8A056A SOP16_Converter_Board Ver.A	SOP16 Transfer Board Ver.A + NY8A056A SOP16_Converter_Board Ver.A
	NY8A056xS18	SOP18	12. NY8A056 DIP/SOP18/SSOP20	NY8A/8B SOP18 / 28 Transfer Board Ver.B	SOP18 / 28 Transfer Board Ver.A
	NY8A056xP18	DIP18		NY8A/8B DIP18 / 28 Transfer Board Ver.B	DIP18 / 28 Transfer Board Ver.A
	NY8A056xD20	SSOP20		NY8A/8B SSOP20/28 (209mil) Transfer Board Ver.B	SSOP20/28 (209mil) Transfer Board Ver.A
NY8B060x	NY8B060xS8	SOP8	11. NY8B071 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY8B061x	NY8B061xS8	SOP8	11. NY8B071 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NY8B061xS14	SOP14	10. NY8B071 DIP/SOP14 Config Card		
	NY8B061xS16	SOP16			
NY8B062x	NY8B062xS8	SOP8	11. NY8B071 SOP8 Config Card 57. NY8B062 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8B062xS14	SOP14	10. NY8B071 DIP/SOP14 Config Card		
	NY8B062xS16	SOP16	58. NY8B062 SOP14 Config Card		
NY8B071x	NY8B071xS8	SOP8	11. NY8B071 SOP8 Config Card	NY8A / NY8B / NY3W / NY9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8B071xS14	SOP14	10. NY8B071 DIP/SOP14 Config Card		
NY8B072x	NY8B072xS20	SOP20	25. NY8B072 DIP/SOP20 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY8B072xP20	DIP20		NY8A/8B DIP18 / 28 Transfer Board Ver.B	DIP18 / 28 Transfer Board Ver.A
NY8BM72x	NY8BM72xS20	SOP20	36. NY8BM72 SOP20 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY8BM72xP20	DIP20	36. NY8BM72 SOP20 Config Card	NY8A/8B DIP18 / 28 Transfer Board Ver.B	DIP18 / 28 Transfer Board Ver.A
	NY8BM72xS16	SOP16	37. NY8BM72 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY8TM52x	NY8TM52xS8	SOP8	39. NY8TM52 SOP8/DFN8/COB Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8TM52xS6	SOT23-6	3. NY8A051 DIP/SOP/SOT Config Card	NY8A SOT23-6 Transfer Board Ver.A	
NY8BE62x	NY8BE62xS8	SOP8	40. NY8BE62 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BE62xS14	SOP14	41. NY8BE62 SOP16 Config Card 58. NY8B062 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BE62xS16	SOP16	41. NY8BE62 SOP16 Config Card 58. NY8B062 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BE62xS8	SOP8	40. NY8BE62 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY8TE64x	NY8TE64xS16	SOP16	45. NY8TE64 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8TE64xS20	SOP20	42. NY8TE64 SOP20 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
NY8BE64x	NY8TE64xS16	SOP16	45. NY8TE64 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8TE64xS20	SOP20	42. NY8TE64 SOP20 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NY8BM61x	NY8BM61xS8	SOP8	61. NY8BM62 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BM61xS14	SOP14	58. NY8B062 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BM61xS16	SOP16	58. NY8B062 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BM61xNA16	QFN16	58. NY8B062 SOP14 Config Card 60. NY8BM61 QFN16 Config Card		QFN16 Transfer Board Ver.A
NY8BM62x	NY8BM62xS8	SOP8	61. NY8BM62 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BM62xS14	SOP14	58. NY8B062 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BM62xS16	SOP16	58. NY8B062 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY8BM62xNA16	QFN16	58. NY8B062 SOP14 Config Card 60. NY8BM61 QFN16 Config Card		QFN16 Transfer Board Ver.A
NY9UP02x	NY9UP02xS16	SOP16	8. NY9UP01A2 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A

3.3 NX_Programmer (Ver.A) + NX1_Converter_Board (Ver.A) Hardware Corresponding Table

The following table shows the corresponding transfer boards and config cards of OTP IC to support different IC series.

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NX1xPxx	NX11PxxAB	COB	9. NX1 Config Card	NX1 COB Transfer Board Ver.A	
	NX12PxxAB	COB			
	NX13PxxAB	COB			
	NX11P21xS16	SOP16	20. NX11P21 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11P21xU24	SSOP24	21. NX11P21 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX11P22xU24	SSOP24	13. NX11P22 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX12P64xU24	SSOP24	26. NX12P64 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX13P64xU24	SSOP24	26. NX12P64 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NX11P22xQ48	LQFP48	14. NX11P22 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
	NX12P44xQ32	LQFP32	18. NX12P34/44/54/64 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX12P44xQ64	LQFP64	19. NX12P34/44/54/64 LQFP64 Config Card	NX1 LQFP64 Transfer Board Ver.A	LQFP64 Transfer Board Ver.A
	NX13P44xQ32	LQFP32	18. NX13P34/44/54/64 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX13P44xQ64	LQFP64	19. NX13P34/44/54/64 LQFP64 Config Card	NX1 LQFP64 Transfer Board Ver.A	LQFP64 Transfer Board Ver.A
	NX12P64xQ48	LQFP48	27. NX12P34/54/64 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
	NX13P64xQ48	LQFP48	27. NX12P34/54/64 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
NX11M2x	NX11M2xAS8	SOP8	23. NX11M2x SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11M2xAS16	SOP16	24. NX11M2x SOP16 Config Card		
NX12M5x	NX12M5xAS16	SOP16	32. NX12M5x SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX12M5xU24	SSOP24	33. NX12M5x SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
NX13M5x	NX13M5xAS16	SOP16	32. NX12M5x SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX13M5xU24	SSOP24	33. NX12M5x SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
NX11S2x	NX11S2xAS8	SOP8	23. NX11M2x SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11S2xAS16	SOP16	24. NX11M2x SOP16 Config Card		

3.4 Smart_Writer Ver.A Hardware Corresponding Table

The following table shows the corresponding transfer boards and config cards of OTP IC to support different IC series.

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NY1P	NY1P207AB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NY1P207AS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY1P207AP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY1P207AS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY1P207AP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY2P	NY2P010AB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY2P010AS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY2P010AP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY2P010AS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY2P010AP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY3P	NY3PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxxC	COB		NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxxD	COB		NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxDS6	SOT23-6	59. NY3P016/035 SOT23-6 Config Card		SOT23-6 Transfer Board Ver.A
	NY3PxxxxS8	SOP8	1. NY1/2/3/4/5/7P Config Card	NY3P SOP8 Transfer Board Ver.A	
	NY3PxxxxP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY3PxxxxS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY3PxxxxP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY3P	NY3PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxxC	COB		NY1P/2P/3P COB Transfer Board Ver.A	
	NY3PxxxxS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY3PxxxxP8	DIP8		NY3P DIP8 Transfer Board Ver.A	
	NY3PxxxxS14	SOP14		NY3P SOP14 Transfer Board Ver.A	
	NY3PxxxxP14	DIP14		NY3P DIP14 Transfer Board Ver.A	
NY3M	NY3MxxxxB	COB1	1. NY1/2/3/4/5/7P Config Card	NY1P/2P/3P COB Transfer Board Ver.A	
	NY3MxxxxC	COB2			
	NY3MxxxxE8	ESOP8		NY3M ESOP8 Transfer Board Ver.A	
NY3W	NY3WxxxxS8	SOP8	4. NY3W SOP Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
NY4P	NY4PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY4PxxxxS8	SOP8		NY3P SOP8 Transfer Board Ver.A	
	NY4PxxxxS14	SOP14		NY4P SOP14 Transfer Board Ver.A	
	NY4PxxxxP14	DIP14		NY4P DIP14 Transfer Board Ver.A	
NY5P	NY5PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY5PxxxxS24	SOP24		NY5P SOP24 Transfer Board Ver.A	
	NY5P185AS28	SOP28		NY5P SOP28 Transfer Board Ver.A	
	NY5PxxxxS28	SOP28		NY5P345/520 SOP28 Transfer Board Ver.A	
	NY5PxxxAQ64	LQFP64		NY5P LQFP64 Transfer Board Ver.A	
	NY5PxxxJS24	SOP24	29. NY5P085J SOP24 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY5PxxxJS28	SOP28	30. NY5P185J SOP28 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY5PxxxJQ48	LQFP48	34. NY5P1K2/720/520J LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
NY5Q	NY5QxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY5QxxxxS8	SOP8	51. NY5Q172 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY5QxxxxS16	SOP16	52. NY5Q172 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY5QxxxxS14	SOP14	43. NY5Q060/092/172 SSOP24 Config Card NY5Q020/040 SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY5QxxxxU14	SSOP24		NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NY5Q342xS28	SOP28	44. NY5Q342 SOP28 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
NY6P	NY6PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY6PxxxJS24	SOP24	28. NY6P085J SOP24 Config Card	NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
	NY6PxxxJS28	SOP28	35. NY6P345/185J SOP28 Config Card		
	NY6P025AS14	SOP14	38. NY6P025A SOP14 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY7P	NY7PxxxxB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NY7PxxxxS28	SOP28		NY7P021/65 SOP28 Transfer Board Ver.A NY7P087/170 SOP28 Transfer Board Ver.A	
	NY7PxxxxQ64	LQFP64		NY7P LQFP64 Transfer Board Ver.A	
NY9UP01x	NY9UP01A1	SOP16	7. NY9UP01A1 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY9UP01A2	SOP16	8. NY9UP01A2 SOP16 Config Card		
NY9UP02x	NY9UP02xS16	SOP16	8. NY9UP01A2 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY9UP64x	NY9UP64xS16	SOP16	6. NY9UP SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY9UP64xU24	SSOP24	5. NY9UP SSOP24(150mil) Config Card	NY8A/8B/9UP SSOP 24/28(150mil) Transfer Board Ver.A	SSOP 24/28(150mil) Transfer Board Ver.A
NY9UP08x	NY9UP08xS16	SOP16	30. NY9UP08 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NY9TP16x	NY9TP16AB	COB	1. NY1/2/3/4/5/7P Config Card	NY4P/5P/7P COB Transfer Board Ver.A	
	NY9TP16xS8	SOP8	16. NY9TP16 SOP8 Config Card	NY3P SOP8 Transfer Board Ver.A (將 SOP Socket Pin-1 與 Pin-4 短路)	
	NY9TP16xS16	SOP16	17. NY9TP16 SOP16/SOP28/SSOP24 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NY9TP16xU24	SSOP24		NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NY9TP16xS28	SOP28		NY8A/8B SOP18/28 Transfer Board Ver.B	SOP18/28 Transfer Board Ver.A
NY9TS02x	NY9TS02xS8	SOP8	22. NY9TS02 SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
NX1xPxx	NX11PxxAB	COB	9. NX1 Config Card	NX1 COB Transfer Board Ver.A	
	NX12PxxAB	COB			
	NX13PxxAB	COB			
	NX11P21xS16	SOP16	20. NX11P21 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11P21xU24	SSOP24	21. NX11P21 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX11P22xU24	SSOP24	13. NX11P22 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX12P64xU24	SSOP24	26. NX12P34/54/64 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NX13P64xU24	SSOP24	26. NX12P34/54/64 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX11P22xQ48	LQFP48	14. NX11P22 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
	NX12P44xQ32	LQFP32	18. NX12P34/44/54/64 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX12P44xQ64	LQFP64	19. NX12P34/44/54/64 LQFP64 Config Card	NX1 LQFP64 Transfer Board Ver.A	LQFP64 Transfer Board Ver.A
	NX13P44xQ32	LQFP32	18. NX12P34/44/54/64 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX13P44xQ64	LQFP64	19. NX12P34/44/54/64 LQFP64 Config Card	NX1 LQFP64 Transfer Board Ver.A	LQFP64 Transfer Board Ver.A
	NX12P64xQ48	LQFP48	27. NX12P34/54/64 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
	NX13P64xQ48	LQFP48	27. NX12P34/54/64 LQFP48 Config Card	NX1 LQFP48 Transfer Board Ver.A	LQFP48 Transfer Board Ver.A
NX11M2x	NX11M2xAS8	SOP8	23. NX11M2x SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11M2xAS16	SOP16	24. NX11M2x SOP16 Config Card		
NX12M5x	NX12M5xAS16	SOP16	32. NX12M5x SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX12M5xU24	SSOP24	33. NX12M5x SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
NX13M5x	NX13M5xAS16	SOP16	32. NX12M5x SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX13M5xU24	SSOP24	33. NX12M5x SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
NX11S2x	NX11S2xAS8	SOP8	23. NX11M2x SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11S2xAS16	SOP16	24. NX11M2x SOP16 Config Card		
NX1xFSxx	NX1xFxxAB	COB	9. NX1 Config Card	NX1 COB Transfer Board Ver.A	
	NX1xFSx1AS16	SOP16	46. NX12FM5x/NX12FS51 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX1xFSx1AQ32	LQFP32	48. NX12FS51 LQFP32 Config Card	NX1 LQFP32 Transfer Board Ver.A	LQFP32 Transfer Board Ver.A
	NX1xFSx1AU28	SSOP28	47. NX12FS51 SSOP28 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
	NX1xFSx1AU24	SSOP24	50. NX12FS51 SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
NX11FS2x	NX11FS2xAS8	SOP8	54. NX11FS2x SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A

Series	P/N	Type	Config Card	Transfer Board	Uni-Transfer Board
	NX11FS2xAS16	SOP16	55. NX11FS2x SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX11FS2xAU24	SSOP24	56. NX11FS2x SSOP24 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
NX1xFMxx	NX1xFMxxAS16	SOP16	46. NX12FM5x/NX12FS51 SOP16 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A
	NX12FMxxAU28	SSOP28	49. NX12FM5x SSOP28 Config Card	NY8A/8B/9UP SSOP24/28(150mil) Transfer Board Ver.A	SSOP24/28(150mil) Transfer Board Ver.A
N25Qxxx	N25QxxxAS8	SOP8	53. SPI_Flash SOP8 Config Card	NY8A/8B/3W/9UP SOP16 Transfer Board Ver.A	SOP16 Transfer Board Ver.A

4 Revision History

Revision History

Version	Date	Description	Page
-	-	The Hardware Tool Appendix file was the separated chapter 6.8 from “Hardware Developing Tool user manual v3.6”	-
3.6	2020/09/04	1. Add NY6P025A SOP14 Config Card ◦ 2. Update NY6P025A SOP14 Config Card and Transfer Board Corresponding Table.	14 16, 23
3.7	2020/11/30	1. Add NY8B061x SOP8/SOP14/SOP16 Config Card. 2. Add NY8B062x SOP14 Config Card. 3. Add NY9UP02A SOP16 Config Card. 4. Add NY8TM52D SOP/DFN8 Config Card.	11-20
3.7.1	2021/01/29	1. Add NY8BE62x SOP8 Config Card. 2. Add NY8BE62x SOP16 Config Card. 3. Update NY8-OTP_Writer Config Card and Transfer Board Corresponding Table.	14 15 20
3.8.0	2021/05/28	1. Add NY8BE62x SOP14, NY8B060x SOP8, NY8TM52x SOT23-6, NY8BM52x DIP-20 to NY8-OTP_Writer Config Card and Transfer Board Corresponding Table. 2. Modify typos.	20 -
3.9.0	2021/09/30	1. Add NY5Q020/040 SOP14, NY5Q060/092/172 SSOP24 Config Card, NY5Q342 SOP28 Config Card, NX13FS51 SOP16 Config Card, and NX13FS51 SSOP24 Config Card. 2. Update the Corresponding Table. 3. Modify typos.	11 23 -
3.9.1	2021/11/30	1. Add NY8TE64 SOP20 、 NY8TE64 SOP16 Config Card 、 NX12FM5x/NX12FS51 SOP16 、 NX12FS51 SSOP28 、 NX12FS51 LQFP32 、 NX12FM5x SSOP28 Config Card ◦ 2. Update the Corresponding Table. 3. Modify typos.	15 20, 23 -

Version	Date	Description	Page
4.00	2022/02/25	1. Add NX12FS51 SSOP24, NY5Q172 SOP8, NY5Q172 SOP16 Config Card. 2. Update the Corresponding Table. 3. Modify typos.	16 22, 24, 25 -
4.10	2022/05/31	NX1_Converter_Board and NX11M_SPI_Handler are only available for NX1xPxx, NX11M2x and NX11M5x to use.	9, 10
4.20	2022/08/31	Add MCU_Writer (Ver.A) to support config cards and transfer boards.	20
4.30	2022/11/30	Add SPI_Flash SOP8 Config Card.	16
4.31	2023/02/24	1. Add the illustrations of NX11FS2x SOP8, NX11FS2x SOP16, and NX11FS2x SSOP24 config card. 2. Add NY4PxxxxS8, NY8BE64 xand NX11FS2x to Config Card and Transfer Board Corresponding Table.	16 20
4.40	2023/05/31	1. Remove SPI Converter Board. 2. Update the illustrations of NX11FS2x SOP8, NX11FS2x SOP16, and NX11FS2x SSOP24 Config Card	- 16
4.50	2023/08/31	Add NY8B062 SOP8 and NY8B062 SOP14 Config Card.	20
4.60	2024/05/31	Add NY3P016/35 SOT23-6, NY8BM61 QFN16, and NY8BM62 SOP18 config card.	16
4.70	2024/08/26	1. Add the descriptions of SOT23-6 transfer board. 2. Add QFN16 transfer board. 3. Add NY8BE62 SOP14 / SOP16 Config Card. 4. Add NY8BM61 QFN16 and NY8BM62 QFN16 Config Card.	6 8 21 22