APPLICATION NOTE

for

Firmware update to NUC120

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Prepared by:

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Step 1. Install "bootloader software" "Nuvoton NuMicro ICP Programming Tool 1.28 - NUC100 series"

onnection type			Connection ch	neck	
● USB			Connect	Discor	nected
ОСОМ	OM1	\sim	Connect	Discol	meeteu
art No.	RAM: N/A	APROM: N/A DataFla	ash: N/A		F/W Ver: N/A
oad file		(a.u.,			
APROM	File name:	C:¥Program Files (x8	6)¥Nuvoton Tools	¥ISPTool¥	
	File size:		Checksum:		
	File name:	C:¥Program Files (ve	S)¥Nuvotop Toolo	¥ISPTool¥	
DataFlash	File size:	C.+Programmies (xe	Checksum:	+13P 1001+	
onfiguration bi	ite		Checksum		
Setting	Config 0: 0x	FFFFFFF	Config 1: 0x	FFFFFFF	Last config V
ile data					
PROM Data	-lash				
rogram					

Step 2. Short all the pins of JP1



Step 3. Power on the device



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Step 4. Connect the USB cable to host PC



Step 5. Press S1 to reset the device

UVC	רכ	٢c)(וו										-	-	-	-			
Connection t	ype			-							C	onne	ectio	n ch	eck					
USB								ОE	MAC	2					_	_				
ОСОМ	CO	M1				\vee					l	Dis	scon	nect		C	0	nnec	ted	
Part No.																				
NUC120RD	2BN	R	AM:	819	2 By	tes	AP	ROM	: 65	536	Byte	s C	Data	lasł	n: 40	96 B	yte	s	F/W Ver:2.4	
Load file																				_
APPOM		File	nam	e:		D:¥v	vork	spac	e¥fir	mwa	re¥L	JSB¥	src¥	nuc1	120¥1	NUC 1	100	_120BSP	_v3.00.001¥NU	C10
Aritori		File	size			8856	5 Byt	es			0	Check	ksum	:	0x1	6F3				
	_	File	nam	e:	[C:¥P	rogr	am F	iles	(x86	j)¥Nu	vot	on To	oolsi	¥ISP1	Tool¥				
DataFlash		File	size								0	hed	ksum							
.	1.11																			
Configuration	Dits																			
Setting		Cor	nfig (): 0x		FFFF	FF7	F			0	Confi	g 1:	0x	000	1F00	0		Last config	~
File data																				
APROM Da	taFla	sh																		_
00000000	50	06	00	20	F1	00	00	00	11	01	00	00	DS	00	00	00	÷	₽	•••••	^
00000010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	÷.,			
00000020	00	00	00	00	00	00	00	00	100	00	00	00	15	01	00	00	£.,			
00000030	10	00	00	00	1.0	00	00	00	10	01	00	00	15	01	00	00	1			
00000040	10	01	00	00	10	01	00	00	10	01	00	00	10	01	00	00	1			
0000000000	19	01	00	00	19	01	00	00	10	01	00	00	18	01	00	00	1			
00000070	18	01	00	00	18	01	00	00	18	01	00	00	18	01	00	00	4			
00000080	18	01	00	00	18	01	00	00	1B	01	00	00	1B	01	00	00	;			¥
Program																				
APROM		\bigcirc	Data	Flas	h	(PRO	M+D	ataF	lash	C) Era	se A	All	•	C	onfig		

Step 6. Press the "Connect" button to start a connection to the device.

ADDOM	File name:	D:¥workspace¥firm	ware¥USB¥src¥nuc	120¥NUC100_120	BSP_v3.00.001¥NUC10
APROM	File size:	8856 Bytes	Checksum:	0x16F3	
ep 8. Leave	DataFlash ui	nchanged.			
DataFlash	File name:	C:¥Program Files	(x86)¥Nuvoton Too	ols¥ISPTool¥	
	File size:		Checksum:		
ep 9. Leave	Configuratio	n bits unchange	ed.		
Configuration bit	s				
Setting	Config 0: 0x	FFFFF7F	Config 1: 0x	0001F000	Co-chic config 🗸 🗸
ep 10. In th	e "Program"	section. only ch	eck "APROM".		
Program	0 -	,.,.			
-					
APROM APROM D	O DataFlash	○ APROM+Dat	aFlash OErase	All Config	et device
APROM APROM tatus	O DataFlash	○ APROM+Dat tart downloadin	aFlash OErase g new firmwai	All Config re to the targe	et device.
APROM APROM tatus	O DataFlash	○ APROM+Dat tart downloadin	aFlash OErase a	All Config re to the targe	et device.
APROM APROM tatus	O DataFlash	O APROM+Dat	aFlash OErase a	All Config re to the targe	et device.
APROM ep 11. Press tatus	O DataFlash	O APROM+Dat	aFlash OErase a	All Config re to the targe	et device.
APROM APROM tatus	O DataFlash	O APROM+Dat	aFlash OErase a	All Config re to the targe	et device.
APROM	O DataFlash	O APROM+Dat	aFlash OErase a	All Config re to the targe	et device.
APROM ep 11. Press status	O DataFlash	O APROM+Dat	aFlash OErase	All Config	et device.
APROM	O DataFlash	O APROM+Dat	aFlash OErase	All Config	et device.
APROM	O DataFlash	O APROM+Dat	aFlash O Erase a	All Config	et device.
APROM	O DataFlash	O APROM+Dat	aFlash O Erase a	All Config	et device.
APROM	O DataFlash	O APROM+Dat	aFlash O Erase	All Config	et device.



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