

# Advin Systems Inc.

408-243-7000

11693 Vineyard Spring Ct, Cupertino, CA 95014, USA. Phone: 408-243-7000 www.Advin.com Sales@Advin.com



# SuperPro-6104N Gang Programmer Quick Start Guide for Administrator

# Procedure A Starting Up

- Connect programmer to AC power source through the supplied AC adapter.
- Connect programmer to a USB port on the computer.
- Power up programmer

• Invoke SuperPro-6104N-GP Software, which displays this screen momentary while looking for the presence of the hardware:

multi-programmer								_
🧭 Connect 🕵 DisConnect 🍞	Setting	Auto	×S		? Abou	t		🗭 Quit
Status Message				-	Serial Numl	ber		
2	aiting				,	1		
3	Connecting			-	rsa			
4 Output			64	atistic				
SUPERPRO multi-programmer start	:s			ausuc	Success	Failure	Sum	Yield
Current time is 11/7/2015,17:51:57. Load initial file: administrator mode. Programmer #1 :Success:0,Failure:0,Total:0.				#1	0	0	0	0.0 %
Programmer #2 :Success:0,Failure:0,Total:0. Programmer #3 :Success:0,Failure:0,Total:0.				#2	0	0	0	0.0 %
Programmer #4 :Success:0,Failure:0,Total:0. All Programmers :Success:0,Failure:0,Total:0.				#3	0	0	0	0.0 %
Count down : disabled. Connect all programmers.				#4	0	0	0	0.0 %
				All	0	0	0	0.0 %
1				ount E	)own dis	abled	·	Reset



After the software find the four independent programmers within the 6104N-GP, it displays four greens indicators with "Ready".

SP6104GP fo	r Window									_
🧾 Cor	inect	🔥 DisConnect	Setting	Auto	×		? About	t		🗭 Quit
Status ——	Message	•					Serial Numb	ber		
1 🥥	Ready.									
2 🕥	Ready.									
3 🥥	Ready.									
4 🥥	Ready.									
utput						Statistic				
		RO multi-programm /2015,17:51:57.	er starts				Success	Failure	Sum	Yield
		dministrator mode ss:0,Failure:0,To				#1	0	0	0	0.0 %
		ss:O,Failure:O,To ss:O,Failure:O,To				#2	0	0	0	0.0 %
Programmer #4 :Success:O,Failure:O,Total:O. All Programmers :Success:O,Failure:O,Total:O.			#3	0	0	0	0.0 %			
Count down Connect al	l programm					# 4	0	0	0	0.0 %
SP6104GP f	or Window.					All	0	0	0	0.0 %
						Count [	Down: dis	abled		Reset

Screen A2

### Start with the [Setting] icon:

104GP for	r Window	
🤌 Cor	nnect 🕵 DisConnect	Setting 🖗 Auto
us ——	Message	- <b>\</b>
•	Ready.	
•	Ready.	

Screen A3

#### Select Administrator:



Screen A4

# Procedure B: Setup Project Files

### Click [Select] to select a device:

etting		
Name:		Select
Buffer		
File Name:		Checksum
Load File into Buffer	Save Buffer into File	Edit Buffer
	1	[
Operation Option	Edit Auto	Administrator's Password
Dev.Config	Load Project	Language
U.E.S	Save Project	Production Mode
Programmers' IDs		ОК

#### Screen B1

On the device selection screen, you can type in the device manufacturer, followed by a partial device name. The S/W allows you to pick one from a list. The characters after the '@' sign indicated package type.

Select		×
	Supported by Programmer Models: /SP611S /SP6100	
Search MICROCHIP PIC16F77 Manufacturer : MICROCHIP	Supported by Programmer Models: /SP611S /SP6100  Device Name :  PIC16F77 PIC16F77(ISP) PIC16F77@PLCC44 PIC16F77@TQFP44 PIC16F777@TQFP44(ISP) PIC16F777(ISP) PIC16F777@TQFP44(ISP) PIC16F777@TQFP44(ISP) PIC16F877@MQFP44(ISP) PIC16F877@MQFP44(ISP) PIC16F877@MQFP44(ISP) PIC16F877@MQFP44(ISP) PIC16F877@MQFP44(ISP) PIC16F877@MQFP44(ISP) PIC16F877@PLCC44 PIC16F877@PLCC44	Device Type
	PIC16F877@TQFP44 PIC16F877@TQFP44(ISP) PIC16F877A PIC16F877A(ISP)(High-V) PIC16F877A(ISP)(Low-V) PIC16F877A(ISP3.3v)(HV) PIC16F877A(ISP3.3v)(LV) PIC16F877A(ISP3.3v)(LV) PIC16F877A@PLCC44	

Screen B2

After you have selected the device, the [Setting] screen becomes this and you can load the data file next:

Setting		×
Device Name: MICROCHIP PIC1	16F77	Select
Buffer		
File Name:		Checksum
Load File into Buffer	Save Buffer into File	Edit Buffer
Operation Option	Edit Auto	Administrator's Password
Dev.Config	Load Project	Language
U.E.S	Save Project	Production Mode
Programmers' IDs		ОК

Screen B3

You can pick your data file by following the standard Windows file selection protocol:

Load File		
Buffer:	)efault	~
File Name:		
,		
File Type:	Binary	~
File Mode:	Normal	<b>~</b>
Buffer Address	<b>5</b> : 0	
File Address:	0	Loading with
Screen B4		

After you have selected a filename, the S/W defaults to certain file modes. For example, if your file extension is BIN, the S/W would assume that your data file is in the binary format. If it is HEX, the S/W would assume it is Intel HEX format. But if it is not the case, you can change it. (Some odd compilers may output a HEX format and name it .BIN)

Load File		
Buffer:	Default	-
File Name:	U:\00-Customer\Tes	ting\1M-FF.BIN
	,	
File Type:	Binary	•
File Mode:	Normal	•
Buffer Addre	ess: 0	
File Address	: 0	Loading with

Screen B5

Click [OK] to load the data file into the computer buffer.

Use the [Edit Auto] feature to select the specific sequence of operations you need:

Name: MICROCHIP PIC		Select	
Buffer			
File Name: U:\00-Cus	tomer\Testing\1M-FF.BIN		Checksum
Load File into Buffer	Save Buffer into File	Edit Buffe	ər
Operation Option	Edit Auto	Administrator's Pa	ssword
Dev.Config	Load Project	Language	
U,E,S	Save Project	Production Mode	
Programmers' IDs			ОК

Screen B6

For example, if you are programming a bunch of erasable devices and they are brand new, then you do not need to include the [Erase] operation in your [Auto] sequence. But if some of them are not new, then you may want to include [Erase] as the first operation, before [Blank Check].

Or, if you just want to erase a bunch of devices, and not program them, then all you need is [Erase] [Blank Check].

Device Functions:	
Program	Add
Read	<u></u>
Verify	Delete
Blank_Check	Delete
Erase	
Protect	Delete All

Screen B7

Cottin

At this point, you can save the information into a project file so that next time you do not have to go through the device and file selections.

Setting		×
Device Name: MICROCHIP PIC	Select	
Buffer		
File Name: U:\00-Cust	tomer\Testing\1M-FF.BIN	Checksum
Load File into Buffer	Edit Buffer	
Operation Option	Edit Auto	Administrator's Password
Dev.Config	Load Project	Language
U.E.S	Save Project	Production Mode
Programmers' IDs		ОК

Screen B8

A standard Windows file saving screen comes up and you can give it a file name and save it into any folder, pretty much like saving a WORD file.

💦 Save Project	
Save in: 📜 Testing 💌	
Name 🔺	
610P-27c4096.prj	
610P-39SF040.prj	
611S-27c4096-Verify.prj	
6100-27c4096-PGM.prj	
D3-68A2.prj	
TEST-27c4096-CS=FA3A.prj	
Screen B8	

Project filenames always default to the file extension of .PRJ. Click [Save] to save the project file.

There is an option for you to give this project file a password, if you want to set limited access by production operators when loading project files. If you do not care, then just leave the password empty and click [OK]



Screen B10

The next time you need to do the same thing, all you need to do is to load this saved project file:

Setting		×
Device Name: MICROCHIP PIC	16F77	Select
Buffer		Checksum
Load File into Buffer	Save Buffer into File	Edit Buffer
Operation Option	Edit Auto	Administrator's Password
Operation Option		Administrator's Password
Dev. Config	Load Project	Language
U.E.S	Save Project	Production Mode
Programmers' IDs		ОК

Screen B11

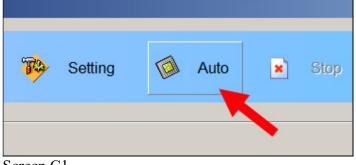
The S/W allows more settings for complicated devices or more advanced programming jobs. But for most devices, you can click [OK] for now.

## Procedure C: Programming the IC Devices

We are ready to program the IC devices now.

Load one or more of the programming sites with the IC devices for the selected project.

Clicking [Auto] will invoke the auto-sequence as setup in the project file.



Screen C1

### The software shows the progress:

🧾 Ci	onnect 🔃 DisConnect 🐺	Setting	Muto	×	Stop	? About	t		🗭 Quit
tatus —	Message					Serial Numb	ber		
1 🥥	MICROCHIP PIC18F77 Checksum : 7AF9H								
2									
	MICROCHIP PIC18F77 Checksum : 7AF9H		_			]			
3									
	MICROCHIP PIC18F77 Checksum : 7AF9H								
4	MICROCHIP PIC18F77 Checksum : 7AF9H								
4 O	MICROCHIP PIC18F77 Checksum : 7AF9H			_	Statistic				
4 utput —				_	Statistic	Success	Failure	Sum	Yield
4 utput Programme Programme All Progr	MICROCHIP PIC18F77 Checksum : 7AF9H rr #3 :Success:0, Failure:0, Total:0. rr #4 :Success:0, Failure:0, Total:0. ammers :Success:0, Failure:0, Total:0.			_	Statistic	Success 1	Failure	Sum 1	Yield 100.0 %
4 utput Programme All Progr Count dow Connect a	MICROCHIP PIC18F77 Checksum: 7AF9H r #3 :Success:0,Failure:0,Total:0. r #4 :Success:0,Failure:0,Total:0. r : disabled. 11 programmers.	).	_	_	# 1	Success 1			100.0 %
4 Programme Programme All Progr Count dow Connect a SP6104GP User's se	MICROCHIP PIC16F77 Checksum:7AF9H r #3 :Success:0,Failure:0,Total:0. r #4 :Success:0,Failure:0,Total:0. r : disabled. 11 programmers. for Window. tting : administrator mode.	).	_	_	# 1 # 2	1	0	1	100.0 %
4 Programme Programme All Progr Count dow Connect a SP61040P User's se Programme	MICROCHIP PIC18F77 Checksum: 7AF9H # #3 :Success:0,Failure:0,Total:0. rr #4 :Success:0,Failure:0,Total:0. rammers :Success:0,Failure:0,Total:0. n: disabled. 11 programmers. for Window.		_	_	# 1 # 2 # 3	1	0 0 0	1 1 1	100.0 % 100.0 % 100.0 %
4 Programme Programme All Progr Count dow Connect a SP6104GP User's see Programme Programme	MCROCHIP PIC10F77 Checksum: 7AF9H r #3 :Success:0,Failure:0,Total:0. r #4 :Success:0,Failure:0,Total:0. ammers :Success:0,Failure:0,Total:0. m : disabled. ll programmers. for Window. tting : administrator mode. r #1 :Ready.			_	# 1 # 2	1	0	1	100.0 %

Screen C2

### and displays the results:

💦 SP6104GP foi	r Window							>
🧾 Cor	inect 底 DisConnect	ѷ Setting	Muto	× Stop	? Abou	t		🗭 Quit
Status	Message		Erase Blank_Cl Program		Serial Num			
1 🥥	Success.		Verify		Senarivum	Jei		
	MICROCHIP PIC18F77 Checkstor 7AF9H				1			
2 🥥	Success.							
	MICROCHIP PIC18F77 Check supp. 7AF9H							
3 🍑	Success. MICROCHIP PIC18F77 Checksure 7AF9H							
4 🥥	Success.			_				
	MICROCHIP PIC18F77 Checksum : 7AF9H				,			
Output				Statistic				
Programmer	<pre>#3 :Success:0,Failure:0,Tota #4 :Success:0,Failure:0,Tota</pre>	1:0.			Success	Failure	Sum	Yield
	nmers :Success:O,Failure:O,To : disabled.	tal:0.		#1	2	0	2	100.0 %
Connect al SP6104GP f	l programmers. or Window.		_	#2	2	0	2	100.0 %
User's set Programmer	ting : administrator mode. #1 :Ready.			#3	2	0	2	100.0 %
Programmer Programmer	#2 :Ready.			#4	2	0	2	100.0 %
Programmer				All	8	0	8	100.0 %
Programmer Programmer	#1 :Ready.			Count	Down: dis	abled		Reset

Screen C3

# Procedure D: Programming IC Devices in Production Mode

### If you have checked the [Production Mode] box here:

Setting			×
Device Name: MICROCHIP PIC	16F77	Select	
Buffer File Name: U:\00-Cust	tomer\Testing\1M-FF.BIN	Checksum	
Load File into Buffer	Save Buffer into File	Edit Buffer	
Operation Option	Edit Auto	Administrator's Password	
Dev.Config	Load Project	Language	
U.E.S	Save Project	Production Mode	
Programmers' IDs		ОК	

Screen D1

then each socket will start programming as soon as it has been loaded with a chip. In this case you will see the progress being independent at each programming site:

<u> (</u> Co	nnect 🤼 DisConnect	🔖 Setting	Muto	× Stop	? Abou	t		🗭 Quit
tatus —	Message				Serial Numb	her		
1 🥥	MICROCHIP PIC16F77 Checksum : 7AF9H							
2 🥥	MICROCHIP PIC18F77 Checksum : 7AF9H							
3 🥥								
	MICROCHIP PIC18F77 Checksum : 7AF9F							
4 🥥	MICROCHIP PIC18F77 Checksum : 7AF9H							
	MICROCHIP PIC18F77 Checksum : 7AF9H			Statistic				
utput	MICROCHIP PIC18F77 Checksum : 7AF8H #3 :Success:0,Failure:0,Tota #4 :Success:0,Failure:0,Tota	1:0.		Statistic	Success	Failure	Sum	Yield
utput Programme Programme All Progra	r #3 :Success:0,Failure:0,Tota r #4 :Success:0,Failure:0,Tota aumers :Success:0,Failure:0,To	1:0.		Statistic		Failure	Sum 1	Yield 100.0 %
utput Programmen Programmen All Progra Count down Connect a	r #3 :Success:0,Failure:0,Tota r #4 :Success:0,Failure:0,Tota ammers :Success:0,Failure:0,To n : disabled. 11 programmers.	1:0.		# 1	Success 1	0	1	100.0 %
utput Programmen All Progra Count down Connect a SP6104GP :	r #3 :Success:O,Failure:O,Tota r #4 :Success:O,Failure:O,Tota ammers :Success:O,Failure:O,To n : disabled.	1:0.	A	# 1 # 2	Success 1 1	0	1	100.0 %
utput Programmer All Progra Count down Connect a. SP6104GP : User's set Programmer	r #3 :Success:0,Failure:0,Tota r #4 :Success:0,Failure:0,Tota ammers :Success:0,Failure:0,To n : disabled. ll programmers. for Window. tting : administrator mode. r #1 :Ready.	1:0.		# 1	Success 1	0	1	100.0 %
utput Programmej All Progra Count dow Connect a. SP6104GP : User's set Programmej Programmej	r #3 :Success:O,Failure:O,Tota r #4 :Success:O,Failure:O,Tota ammers :Success:O,Failure:O,To n : disabled. 11 programmers. for Window. for Window.	1:0.		# 1 # 2	Success 1 1	0	1	100.0 %

Screen D2

When a chip has finished, you can unload it and put in another chip, without doing anything with your keyboard or mouse.

With the help of the counters in the statistics display, you can decide when a job has been completed. If the failure counts are abnormally high or the yield percentage is abnormally low, it would be cause for alarm.

## Procedure E: Exiting Software

To stop the programming operation, click the [Stop] icon.

<b>B</b>	Setting	Auto	× St	op <b>?</b>	About
				Seria	l Number
	FA2451EH	socket.			
devic	e into the	socket.			
um : 01	FA2451EH				

To quit the software, click the [Quit] icon at the upper right corner of the screen:



Filename: Quick-Start-6104N-Administrator.pdf Revised: Jan 3, 2023