

ICP Family Programmers: Brief Datasheet

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1 Comparison

##	Parameter	ICP2-GANG(G3)	ICP2-COMBO(G3)-4	ICP2-COMBO(G3)-8	ICP2-COMBO(G3)-12	ICP2(G3)	ICP2-Portable(G3)	ICP2-ISO(G3)	ICP2-LAN(G3)
									
	General Features								
1.	Primary use	Heavy mass production	Heavy mass production	Heavy mass production	Heavy mass production	Mass production	Service	Mass production	Mass production
2.	Dimensions (w/o wings and connectors)	195x110x68mm	215x118x44	215x118x68	215x118x90	175x85x35mm	145x82x28mm	78x60x27mm (small size)	78x60x30mm (small size)
3.	Number of channels	4	4	8	12	1	1	1	1
4.	Mechanical	Plastic enclosure	Metal, open frame	Metal, open frame	Metal, open frame	Plastic enclosure	Plastic enclosure	Metal, closed frame, DIN rail and wall mountable	Metal, closed frame, DIN rail and wall mountable
5.	GANG chain connection	Yes, till 64 channels	Yes, till 64 channels	Yes, till 64 channels	Yes, till 60 channels	-	-	Yes, till 16 channels	Yes, till 16 channels
6.	Environment storage	Flash 32MByte (per channel)	Flash 32MByte (per channel)	Flash 32MByte (per channel)	Flash 32MByte (per channel)	Flash 32MByte	Flash 32MByte	Flash 32MByte	Flash 32MByte
7.	Number of environments	512 (per channel)	512 (per channel)	512 (per channel)	512 (per channel)	512	6	512	512
	Advanced Features								
8.	Secure programming	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)
9.	Gap Eliminator ™	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10.	DLL / Advanced Command Line	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)
11.	High-level RS-232	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)
12.	Fully standalone serialization	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13.	Fully standalone calibration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14.	OEM solution center	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

##	Parameter	ICP2-GANG(G3)	ICP2-COMBO(G3)-4	ICP2-COMBO(G3)-8	ICP2-COMBO(G3)-12	ICP2(G3)	ICP2-Portable(G3)	ICP2-ISO(G3)	ICP2-LAN(G3)
									
15.	Opto-relay barrier	-	Yes	Yes	Yes	-	-	-	-
16.	Connection via Internet	-	Yes	Yes	Yes	-	-	-	Yes
17.	Non-secure counter	-	-	-	-	-	Yes	-	-
18.	Reported as ICP2 for plug-and-play replacement in customer systems	-	-	-	-	Native	-	Yes	Yes
	<u>Communication Interface</u>								
19.	USB interface	Yes	Yes (isolated)	Yes (isolated)	Yes (isolated)	Yes	Yes	Yes (isolated)	-
20.	LAN interface	-	Yes (isolated)	Yes (isolated)	Yes (isolated)	-	-	-	Yes (isolated)
21.	RS-232 interface/connector	D-type 9F	D-type 9F (isolated)	D-type 9F (isolated)	D-type 9F (isolated)	D-type 9F	-	Header-16, 2.54mm (isolated)	Header-16, 2mm (isolated)
	<u>Wired Interface</u>								
22.	Non-isolated GO/PASS/FAIL on D-type 15	Yes	-	-	-	Yes	Yes	Yes	Yes
23.	Isolated GO/PASS/FAIL	-	Yes (per channel)	Yes (per channel)	Yes (per channel)	-	-	Yes	Yes
24.	Isolated environment switch		Yes	Yes	Yes	-	-	Yes	Yes
	<u>Target, User Interface</u>								
25.	Target connector	D-type 15F (per channel)	DIN-48 (1 per 4 channels)	DIN-48 (1 per 4 channels)	DIN-48 (1 per 4 channels)	D-type 15F	D-type 15F	D-type 15F	D-type 15F
26.	PASS and FAIL LEDs	Yes (per channel)	Yes (per channel)	Yes (per channel)	Yes (per channel)	Yes	Yes	Yes	Yes
27.	POWER, ENVIRONMENT and GO button	-	-	-	-	-	Yes	-	-
	<u>Electrical Parameters</u>								
28.	Power from USB only	-	-	-	-	Yes	Yes	Yes	-
29.	Battery powered	-	-	-	-	-	Yes	-	-
30.	VDD current limit	250mA (per channel)	250mA (per channel)	250mA (per channel)	250mA (per channel)	250mA	100mA	250mA	250mA
31.	VDD and VPP hardware current limit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

2 How to Order



- 1** Programmer P/N:
ICP2(G3) = ICP2(G3)
ICP2PORT(G3) = ICP2-Portable(G3)
ICP2ISO(G3) = ICP2-ISO(G3)
ICP2LAN(G3) = ICP2-LAN(G3)
ICP2GANG(G3) = ICP2-GANG(G3)
ICP2COMBO(G3)-4 = ICP2-COMBO(G3)-4
ICP2COMBO(G3)-8 = ICP2-COMBO(G3)-8
ICP2COMBO(G3)-12 = ICP2-COMBO(G3)-12
- 2** **D** = DLL/Command Line/Advanced Command line Support
- 3** **S** = Secure Programming Support
- 4** **FAM1** = 1 family device support
 ...
FAM2 = 2 families device support
FAM5 = 5 families device support
 ...
ALL = All currently available permanently activated families and the next 8 future families to be added by Softlog Systems

Examples:

ICP2COMBO(G3)-4-DS-FAM1 = 4 channel ICP2-COMBO(G3) programmer with DLL/Command line/ Advanced Command line, Secure Programming and 1 family device support.

ICP2(G3)-D-FAM4 = Single-channel ICP2(G3) programmer with DLL/Command line/Advanced Command line and 4 families device support.

ICP2ISO(G3)-DS-ALL = Single-channel ICP2-ISO(G3) programmer featuring DLL/Command line/Advanced Command line, along with Secure Programming and all permanently activated currently available families, including 8 next future families to be added by Softlog.

3 Definitions

##	Definition	Description	Example
1.	Family, Family/Algorithm, FAM	A group of devices/MCUs with the same or similar programming algorithm, represented as a family number. For a complete list of families supported by Softlog Systems see "Families/Algorithms" list in document: https://softlog.com/documents/Device%20list.pdf	Family 68 "STM32L4/G4/G0/WB/WL/C0/U0"
2.	Programmer with ALL families	A programmer with all permanently activated currently available families and 8 next future families to be added by Softlog Systems	Programmer purchased in Apr-2025: all families till number 123 are permanently activated, all families till number 115 are currently supported
3.	Permanently Activated Families	Forever activated families. Expansion by new devices of existing family is free of charge	Full part number (P/N) for ICP2(G3) programmer with 5 families to be permanently activated: ICP2(G3)-FAM5
4.	Temporarily Activated Families	Families activated for predefined number of programming cycles controlled by a down counting PASS counter. Once the PASS counter reaches zero all temporary activated families are disabled for further programming	New programmers come with all temporarily activated families; initial PASS counter value is 500
5.	DLL / Command Line / Advanced Command Line Support (D)	Feature which allows to operate Softlog programmers from a user application using ICP DLL or/and ICP Command Line / Advanced Command Line. Additionally, it enables high-level RS-232 interface for advanced standalone operations without PC	DLL / Command Line / Advanced Command Line support for ICP2(G3) with 5 families: ICP2(G3)-D-FAM5
6.	Secure Programming Support (DS)	Softlog's Secure Programming feature protects the unique firmware that controls your product. It adds multiple layers of protection to your business-critical intellectual property, dramatically reducing the risk of stolen firmware during production. This feature always comes with D. See link below for more information: https://softlog.com/secure-programming/	Secure Programming support for ICP2(G3) with 5 families: ICP2(G3)-DS-FAM5

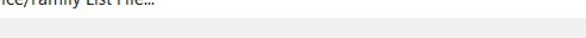
5. Press “Close”

Step 2: Collect Firmware IDs and send to Softlog Systems

6. If not done yet: connect ICP programmer
7. Select "Options → Summary of Options/Families, Collect My Firmware IDs"
8. Press "Save Families to be activated and Firmware IDs..."
Summary of Options/Families

[illegible]

9. Press "Load Device/Family List File..."
Load Device/Family List File...



Load Device/Family List File...

Step 1: load device/family list file which was created in dialog "Options - Create Device/Family List for Activation"

Load Device/Family List File... Create Device/Family List... Cancel

10. Select previously saved *.famx file and press "Open" → Summary screen appears

[illegible]

11. Press “Create firmware IDs file with families...” and save (example: “FAM3_1CH_28-Apr-2025_9A3D71.txt”)

12. Send the saved file to activation@softlog.com

Step 3: Receive HEX file for Activation from Softlog Systems

Step 4: Activate the Desired Support

13. Unzip received HEX file and copy to ICP software directory as follows:
<your drive>:\Softlog\IcpWin\Option Activation
14. Run "ICP for Windows" software with the ICP family programmer connected
IMPORTANT: ICP2-GANG and ICP2-COMBO programmers should be defined as
"ICP2-GANG/ICP2-COMBO" with all channels enabled (not single channel)
15. Select "Options → Activate Options/Families..."
16. Select the HEX file and press "Open"
17. Follow on-screen instructions

5 Documentation

##	Programmer	Documentation
1.	ICP2-GANG(G3)	https://softlog.com/product/icp2ganqg3/#documents
2.	ICP2-COMBO(G3)-4	https://softlog.com/product/icp2comboq3-4/#documents
3.	ICP2-COMBO(G3)-8	https://softlog.com/product/icp2comboq3-8/#documents
4.	ICP2-COMBO(G3)-12	https://softlog.com/product/icp2comboq3-12/#documents
5.	ICP2(G3)	https://softlog.com/product/icp2q3/#documents
6.	ICP2-Portable(G3)	https://softlog.com/product/icp2-portableq3/#documents
7.	ICP2-ISO(G3)	https://softlog.com/product/icp2-isog3/#documents
8.	ICP2-LAN(G3)	https://softlog.com/product/icp2-lang3/#documents

6 History

- May-2025: original document

7 Warranty

Softlog Systems (2006) Ltd. warrants this product against defects in materials and workmanship for a period of 1 (one) year. This warranty will not cover programmers that, in the opinion of Softlog Systems, have been damaged due to abuse, improper use, disassembly, replacement of parts or attempted repair by anyone other than an authorized Softlog Systems service technician.

Softlog Systems emphasizes that Secure Programming software is intended to reduce a risk but can't completely prevent unauthorized reconstruction of your HEX file or/and unauthorized breach of limitation of devices to be programmed. In no event shall Softlog Systems be liable to you for any loss due to reconstruction of the HEX file or breaching limitation of the programmed devices

Softlog Systems shall not be liable for any indirect, incidental, or consequential damages, regardless of whether liability is based upon breach of warranty, negligence, strict liability in tort, or any other theory. Softlog Systems will never be liable in an amount greater than the purchase price of the products described by this express warranty. No agent, distributor, salesperson, or wholesale or retail dealer has the authority to bind Softlog Systems to any other affirmation, representation, or warranty concerning these goods.

8 Contact

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