



# ICP2-COMBO(G3)-12

## 12 channel galvanic isolated in-circuit programmer

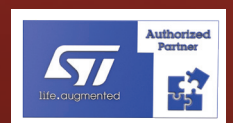
### Product Overview:

The 12 channel ICP2-COMBO(G3) programmer is the premier tool for high-volume production environments. This high-speed production-grade flash programmer can expand to 60 channels through daisy chain configuration and is ideal for non-stop mass production operations.

The programmer supports popular programming interfaces, including ICSP, SWD, JTAG, UPDI, I2C, SPI, TPI, PDI, UART, Microwire, SWIM, SWI, BDM, C2, SBW, etc., and works with any silicon chip. It is used with Microchip, ST, NXP, Nordic, Renesas, Cypress, Texas Instruments, Silicon Labs, GigaDevice, and other microcontroller vendors.

- Universal flash programmer
- Up to 60 true parallel channels
- Fast high-volume programming
- Easy ATE integration
- Built-in opto-relay barrier for target lines
- Galvanic isolation of control and communication lines
- DLL/Command Line/ Advanced Command Line Support (optional)
- Secure programming - Innovative, multi-layer IP protection (optional)
- 24x7 Support

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## High-Speed, Scalable Programming Device

- ICSP, SWD, JTAG, UPDI, I2C, SPI, TPI, PDI, UART, Microwire, SWIM, SWI, BDM, C2, SBW, etc. programming interfaces
- Ultra fast programming of up to 60 channels simultaneously
- Built-in opto-relay barrier for target lines
- Galvanic isolation of control and communication lines
- LAN, USB and RS-232 interfaces
- On-board 32MByte flash memory per channel for non-volatile storage of HEX, configuration and serialization files (6 environments)
- Multiple serialization schemes: sequential, random, pseudo-random and user file, 1 to 8 bytes
- Tests Vdd and Vpp for overload with indication by software
- Dimensions: 215 x 118 x 90mm

## Programmable Hardware

- Isolated wired remote programming and environment switch: GO/PASS/FAIL/ENV
- Programmable Vdd (1.8 to 5.5V) and Vpp (1.8 to 13.5V)
- Programmable delay between Vdd and Vpp (0.1 to 250ms)
- Programmable clock/data speed (500KHz to 10MHz)
- Programmable Vdd source: ICP2-COMBO(G3) or target
- Vdd current limit: 250mA per channel

## Easy-to-Use Software

- DLL / Command Line / Advanced Command Line for automatic programming (optional)
- Secure programming feature including hex file encryption, counter and secure buffer (optional)
- 6 environments per channel
- Daisy chain setup possibility to increase capacity to 64 channels
- Remote operation

## Host System Requirements

- Windows®- 7/8/10/11
- Linux with Wine
- LAN or USB or RS-232 port



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