

Flash & Gang Programming

GSAS Micro Systems Pvt Ltd (GSASMSPL) has partnered with Elprotronic Inc., Canada to provide Fast and Reliable Production Programmers for MPUs and MCUs in embedded systems.

Why Choose Us

Elprotronic has been in the programming solutions market for over two decades consistently delivering top-tier, user-friendly programmers for EMS companies in addition to basic programming of internal flash memory. This programmer differentiates itself from others by offering a significant reduction in the amount of additional hardware needed for production programming processes without sacrificing the quality.



Gang Programming

- Each FPA can program up to 6 units
- Connect up to 64 FPAs to one station
- Program all units in parallel
- Windows and Linux CLI support



Functional Testing

- Use our API to execute test programs in RAM or Flash, and read back the results
- Use the API to access units for MAC address, silicon ID, and more...



Serialization

- Write unique ID to each unit
- Log all production: date, IDs, etc.
- Maintain complete history of production logs to track inventory



Power Profiling

- Measure power: $I_{cc} \geq 5nA$, V_{cc} : 1.2V-4V
- Sampling period: 2 - 64 ms
- Monitor in real-time: 2k sample buffer

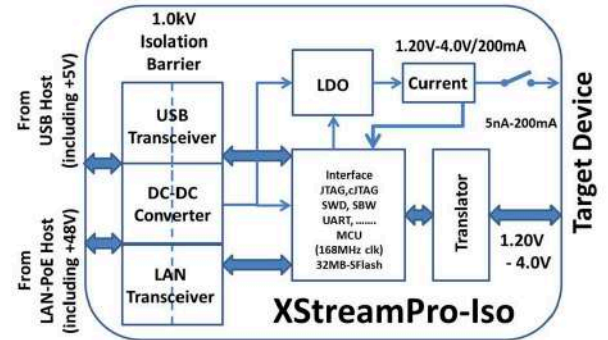


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Fast Reliable Easy to use



Control all Flash Programming Adapters (FPAs) using one application; debug, program, test, and scale out. Whether it's just a few adapters, or dozens, the interface is the same. Benefit from our expanding wiki, and try examples in C#, C++, Python, and Labview.



Standalone option

For easy-to-use or in-field updates, use our standalone capability for single target updates and programming.



Security

Encrypt your programming images internally on the adapter for standalone programming, or use password-protected disk images for Gang programming



External Flash

Product solutions that incorporate not only MCU internal memory such as Flash, EEPROM, or OTP, but also external QSPI flash can be seamlessly programmed with our programmer. Using just JTAG/SWD connections, NOR SPI flash can be programmed using the MCU as a proxy, relying on MCU peripherals for control. No extra connections required.

State-of-the-Art Programmiers

Our brand new, highly compact, programming adapters are professionally made in an automotive-certified EMS facility.

Our programmers incorporate high-frequency communication, galvanic isolation, ethernet support, flexible power supply, internal memory, broad protocol support, and a comprehensive API for board platform support.

All products come with manufacturer's warranty for parts and email, phone, and virtual support for user onboarding.

Supported Vendors: Winbond, Texas Instruments, STMicroelectronics, Silicon Labs, Renesas Electronics, NXP Semiconductors, Nordic Semiconductor, Macro-nix, Microchip Technology, Micron Technology Inc., Maxim Integrated, Marvell Technology, ISSI, Infineon/Cypress, GigaDevice, Analog Devices, Adesto Technologies, Active Semi, and more to come...



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