



Secure Programming Services

for *MCU-based systems

Data protection: a critical issue when outsourcing embedded systems programming

Secure programming services to protect software IP (Intellectual Property)

Solution for manufacturing in uncontroled environment

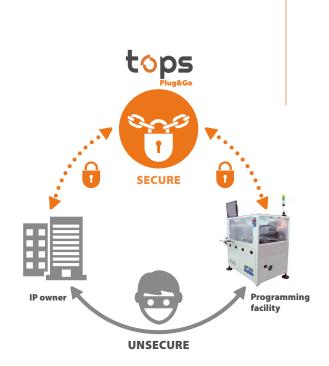




'MCU: Microcontroller Unit

for secure programming services

- Enable software IP protection against illegal copies, cloning and overproduction
- Integral control of software IP during manufacturing operations
- Already qualified on all **System General** programmers
- Compatible with most programmable microcontroller



SERVICE BENEFITS

- One stop shop solution System General & Trusted Objects
- Secure control between IP owner and programming equipment
- Adapted for each project (programmer, MCU) by Trusted Objects
- No internet connexion needed during production operations
- Signed batch report to control the number of programmed devices









service enablers

Secure box with a **display screen**



Technical support for adaptation and installation

Preset number of programming operations

Full set of documentation, including user manual



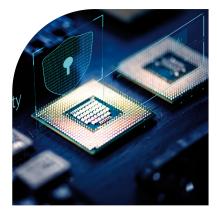


Secure box hardware:

- Portable computer
- 240 GB SSD
- Hardware security module (HSM)
- Connected to the MCU programmer

Secure box software:

- System services
- Application server with User Interface (UI)



Customer experience

1

IP owner use case descriptionSoftware size, programmer, MCU...

2

TOPS adaptationBy Trusted Objects

3

Installation of the secure box and validationFull support from System General

Pay-per-use business model

Licensing model based on the number of secure programming operations

