GEN5XX Firmware Extension (GFE) Development Kit
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GFE Development kit content

- PLG548: GEN5XX family coupler with extended memories
- EXT548: Host / Power Supply / Emulator connection board
- ATMEL SAM-ICE emulation interface (optional) with USB and flat cables
- 5-way cable for host & power supply interfaces
- 8-way cable for emulation interface
- Fake SAM (to allow SAM locking, if odd number of SAM used)
- Media (USB key) containing documentation, tools and samples GFE applications
- Content of the generic GENXXX Development Kit is also included (cards, C.ticket®, SAMs, FDC102 Field Detector Card, and media key content)
GFE Development kit description

- USB key
- EXT548
- 5-way cable
- SAM-ICE USB cable
- 8-way cable
- PLG548
- Fake SAM
- Atmel SAM-ICE
- SAM-ICE flat cable

+ Generic GENXXX Dev Kit content (cards, C.ticket®, SAMs, FDC102 Field Detector Card, and media key content)
GFE functionalities

- GFE run in extended memories
- 2 MB Flash memory reserved for GFE
- 256 KB RAM memory reserved for GFE.
- GFE is independent of the GEN5XX firmware
- Certifications (EMVCo or RCTIF) remain active on the PLG548.
- GFE interacts with GEN5XX firmware through coupler commands set
- GFE as slave: allow to extend and combine the coupler commands set
- GFE as master: complete control of the PLG548. Interacts with the host and use coupler commands set.
- Use GENXXX Dev Kit (included) as reference for couplers commands set and specifications
GFE installation

- Copy the USB key root directory to a directory on your hard drive.

- GENXXX firmware extension (GFE) installation is described in the document "RD-ST-11025-xx_GEN5XX Firmware extension.pdf"
Media (USB key) contents

- Documentation
- Samples
- Tools
- Utilities
- History.txt
- Readme.txt
Media (USB key) contents

- GEN5XX Firmware extension description
- GNU-Based Software Development on AT91SAM
- Using Open Source Tools for AT91SAM7S Cross Development
Media (USB key) contents

- Samples source code providing sample GFE applications
Media (USB key) contents

• Eclipse IDE & plug-ins
• GNU C compiler for ARM
• OCD JTAG debugging
• J-Link GDB Server for ATMEL SAM-ICE debugging
• ATMEL SAM-BA Flash utility
Media (USB key) contents

- GFE loader command line utility
  - Allow to download a GFE application
  - Allow to stop a GFE application to return to CSC mode
  - Use only the coupler host port
  - SAM-ICE hardware and SAM-BA software not required