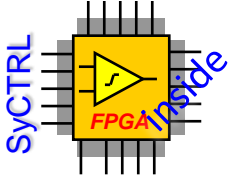


## > Pyro lines Simulator



The Pyro lines simulator is used during AIT /AIV phases for pyro line management (up to several hundred), namely thermal knives simulation, pyro lines simulation, pulse characterization, spurious detection and measurement.

As options, it can be fitted with individual front panel test points.

Offers and expertise



Offers and expertise

## Function

- Pyrotechnic lines simulation
- Pyrotechnic valid pulse measurement
- Pyrotechnic spurious pulse detection and logging
- Thermal knives simulation
- Thermal knives firing measurement
- Self test capability
- Interface cable to spacecraft

## Implementation

- Pulse detection based on SyCTRL
- Pulse generation based on SyCTRL
- Front panel test points
- Ethernet TCP/IP interface for remote control
- Windows man machine interface for local control
- 19" rack integrated

## Performance

- Unlimited number of lines
- Spurious pulse detection limits:
  - ✓ Pulse duration > 100  $\mu$ sec
  - ✓ Level > 100 mA
- Nominal pulse:
  - ✓ Max. level 10 A
  - ✓ Duration 1 sec

## Used technology

- Clemessy's SyCTRL second level protection and TM/TC features

