

aselsan

GFCS

NAVAL GUN FIRE CONTROL SYSTEM



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The Naval Gun Fire Control System (GFCS) has been developed to provide effective fire control and to deliver gun orders for the naval guns with different calibers including 40mm, 76mm, 127 mm. The GFCS receives target data and performs ballistic calculations to produce accurate gun orders for both surface and air targets.

The GFCS provides open architecture interfaces to communicate with combat and navigation systems via combat/navigation network of the platform. The GFCS provides capability to control the Gun by Combat Management System Operator Consoles or by Target Designator System in the case of an emergency by means of Gun Emergency Control Unit.

The GFCS can be easily integrated with the Combat Management System as well as with the sensors of the platform.

The GFCS is an indigenous product designed and developed by ASELSAN based on extensive experience accumulated from the applications realized in fire control system developments extending to years.

System Specification

- Combat management system integration
- Variety of communication interfaces (RS422, Ethernet, Synchro, Discrete etc.) depending on platform requirements
- Time synchronization
- Target position and velocity estimation
- Ballistic calculation using NABK or firing table
- Predicted hit point calculation
- Forbidden zone management
- Airspace coordination area management
- Crest control
- Correction management
- Direct, throw-off, barrage, bracket and illumination engagement method support
- Meteorological correction
- Hit probability calculation
- Gun stabilization
- Built-in test and monitoring
- Built-in gun emulation for training
- Muzzle velocity radar
- Environmental conditions qualified for MIL-STD-810F
- UPS support for uninterrupted operations

