The Multi Function Keyboard (MFK) is an avionics sub-system through which the pilot interacts to configure mission related parameters like flight plan, airfield database, communication equipment during initialization and operation flight phase of mission.

The MFK consists of a MOTOROLA 68000 series processor with ROM, RAM and EEPROM memory. It is connected to one of the 1553B buses used for data communication. It is also connected to the Multi Function Rotary switch (MFR) through a RS422 interface. The MFK has a built-in display unit and a keyboard. The display unit is a pair of LCD based Colour Graphical Display, as well as a Monochrome Heads-Up Display.

The Real-time operating specifications are very stringent in such applications because the performance and safety of the aircraft depend on it. Efficient design of the architecture and code is required for successful operation.

Technology Highlights:

- pSOS Real-Time OS,
- 68000 Processor,
- C and Assembly code,
- 1553B Bus Protocol