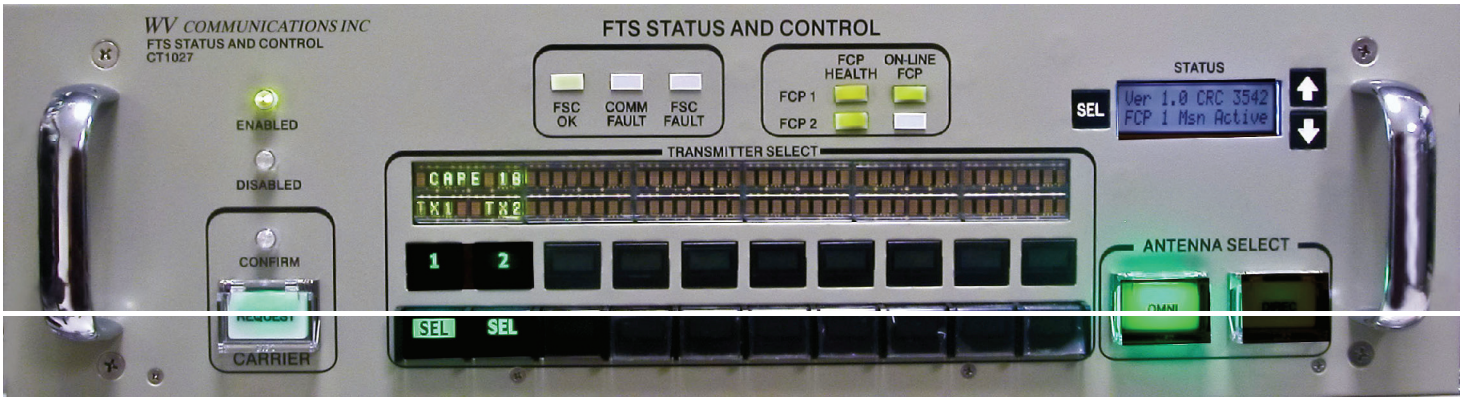
WV Communications

FTS Status & Control Panel

The FTS Status & Control Panel (FSC) provides a subset of the functions provided by the FTS Programming System (FPS), but without any operating system or file system. The code is stored in FLASH memory and loaded into the on-chip SRAM at startup. This code consists of a single C program. The FSC interfaces to the various FTS subsystems via an Ethernet interface.

Programmed by the FPS, the FSC provides the system operator with the ability to select which transmitter string has an active carrier and allows the system operator to select which transmitter string is primary and which are backups. The FSC can be used to control up to twelve (12) transmitter strings and can be used for a single mission or multiple missions, where the available transmitter strings are allocated to different missions. The FSC is equipped with a digital display, allowing the system operator to assign a name to specific transmitter groups, a row of LCD indicators, denoting the switchover order of the transmitter string in each group, and a row of LCD pushbuttons, allowing the system operator to select the active transmitter is each group.

The FSC also provides other functions, such as allowing the system operator to activate and deactivate the Carrier, as well as controlling the coaxial relays which select the antenna to which the RF output of the selected transmitter string is routed to. Just like the Flight Termination Panel (FTP), the FSC is equipped with an LCD that displays the firmware version and CRC of the code on startup, as well as the model number of the unit. While a mission is running the unit continues to display the firmware version and CRC of the code in the unit, as well as the name of the FCP the FSC is currently communicating with. Located on the right side of the LCD are UP and Down pushbuttons that allows the system operator to select between various menus, where certain system parameters can be monitored and others changed, in real time. The SEL button on the left side of the LCD is used to select a parameter change initiated by the system operator. Lastly, the FSC is provided with various status LEDs, providing the system operator with status information on the FSC itself, as well as the health of the communication links between the FSC and FCPs that are part of the FTS.



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