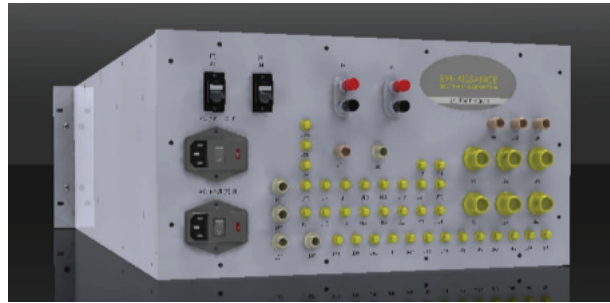


Redundant Switch Matrices



Renaissance introduces integrated assemblies that uses redundant Ethernet based control cards. The primary function is to condition the signals from dual Tx and Rx radio heads to the up-converters and down-converters along with the ability to detect signal dropout thereby switching from the Primary radio to the Secondary radio. The interface consist of Ethernet along with a Display and Keyboard.

The Ethernet Control Unit (ECU) is the center of the system. It provides external interface to control all functions (switch and attenuation) using SNMP protocol, Command Line Interface (CLI) and Web Interface. It also provides power detection, event reporting with level of severity and status configuration through SNMP traps. The traps can be programmed to observe and report status of RF components in the matrix. There are two processors on board and the status of the RF components along with their present state is stored in FLASH RAM. In default condition, one processor boots up while the other is in the sleep mode. The operational processor accepts all functional commands when programmed and keeps updating the other processor in real time mode. When one processor on the ECU goes down, the other processor kicks into action and all the states of the RF components are maintained. The market for these products covers both Commercial and Government Markets – applications requiring data connection to be maintained under all conditions.