

Meshbed – Description of Research

Meshbed is an experimental CubeSat, providing a technology research and demonstration platform. The mission will test a new wideband phased array antenna technology and conduct proof-of concept demonstrations. Demonstrations will consist of two-way communications between the satellite and ground terminals and a receive-only demonstration of passive radar concepts will be conducted. The tests will validate the performance of the system and provide flight heritage.

The radio operation is necessary to provide command and control for spacecraft systems, to obtain status data on spacecraft bus and payload, and to test the phased-array.