CLAIMS

1. A modular data center system comprising:

a module for housing removable electronic equipment, the module having a top wall, a bottom wall, and a floor in between the top and bottom walls;

a cooling system in fluid communication with an inner volume of the module for cooling of the electronic equipment;

wherein the data center system is capable of being moved to remote locations;

a cabinet above the floor within the module that forms an enclosure, wherein the cabinet has an inlet and an outlet, the inlet of the cabinet being arranged on the floor and the outlet being proximate to a top portion of the cabinet;

a supply channel underneath the floor connected with the cabinet inlet;

an exhaust channel connected with the cabinet outlet;

one or more plenums underneath the floor and in fluid communication with at least the supply channel and the cabinet inlet;

the cooling system including a cooling coil arranged within the supply channel underneath the floor, wherein a coolant flows through the cooling coil to remove heat from the air flowing through the supply channel;

a sensor in proximity to the cabinet for sensing environmental data associated with the electronic equipment, wherein the sensor sends the environmental data to a controller;

a fan arranged within the at least one plenum for generating a pressure differential through the one or more plenum and the supply channel; and

a damper configured to selectively open and close the cabinet inlet with a damper actuator based on signals received from the controller.

2. The data center system of claim 1, wherein the environmental data comprises at least one of temperature, pressure, humidity and security data and wherein, based upon the environmental data, the controller causes an adjustment of at least one of a temperature, a pressure, a humidity and a security control associated with the electronic equipment.

3. The data center system of claim 1, wherein, based upon the environmental data, the controller causes an adjustment to at least one of a temperature, a pressure and a humidity associated with the cabinet.

4. The data center system of claim 3, wherein the controller causes the adjustment in real time.

5. The data center system of claim 3, further comprising the controller.

6. The data center system of claim 1, wherein the environmental data comprises at least one of a temperature, a pressure and a humidity.

7. The data center system of claim 1, wherein the electronic equipment is capable of being placed in communication with a network when at the remote location.

8. The data center system of claim 1, further comprising a mobile support structure, wherein the housing is disposed on the mobile support structure and the mobile support structure comprises a trailer capable of being towed to the remote location.