WHAT IS CLAIMED IS:

1. A circuit board device comprising:

a plurality of airgap devices, each airgap device of the plurality of airgap devices being operable to switch between a disconnected state in which a physical airgap is formed by the airgap device, and a connected state in which the physical airgap is closed;

a plurality of connection ports, each of the plurality of connection ports being configured to selectively connect, via a corresponding set of one or more corresponding airgap devices of the plurality of airgap devices, to a corresponding network-isolate device or resource, to enable a corresponding network link to a data network;

a controller operable to switch each airgap device of the plurality of airgap devices between the connected and disconnected states;

a transceiver operable to receive out-of-band communications communicated in a communication protocol that is distinct from a communication protocol of the data network;

processing resources to (i) enable a user to specify a corresponding whitelist of one or more out-of-band devices for a specific connection port of the plurality of connection ports, (ii) authenticate, using the corresponding whitelist, an out-of-band device as a source of an out-of-band communication received by the transceiver, and (iii) in response to authenticating the out-of-band device, transmit, based on the out-of-band communication, a command to the controller for the specific connection port;

wherein the controller is operable, in response to receiving the command for the specific connection port, to switch the corresponding set of airgap devices for the specific connection port, (i) from the disconnected state to the connected state, or (ii) from the connected state to the

disconnected state, to enable or disable network access, via the corresponding network link, to the corresponding network-isolation device or resource.

2. The circuit board device of claim 1, wherein each connection port of the plurality of connection ports utilizes a corresponding authentication protocol to enable or disable network access, via the corresponding network link, to the corresponding network-isolation device or resource.

3. The circuit board device of claim 2, wherein the processing resources enable the user to specify a unique authentication protocol for the specific connection port.

4. The circuit board device of any of the preceding claims, further comprising:

a plurality of status indicators, each status indicator being associated with at least one corresponding connection port of the plurality of connection ports;

wherein the status indicator indicates whether the at least one corresponding connection port is in a connected state or a disconnected state.

5. The circuit board device of claim 4, wherein the status indicator comprises a multi-colored light element.

6. The circuit board device of claim 1, wherein the data network is an Internet Protocol network, and wherein the out-of-band communication is communicated over a non-IP communication channel or link.

7. The circuit board device of claim 6, wherein the whitelist identifies a unique authentication process for communications from the out-of-band devices of the whitelist.

8. The circuit board device of claim 7, wherein the whitelist identifies a mobile computing device as one of the specified out-of-band devices of the whitelist, and wherein the authentication process includes one or more SMS communications.

9. The circuit board device of any of the preceding claims, wherein the plurality of airgap devices are maintained in the disconnected state, and the controller is configured to maintain multiple airgap devices of the plurality of airgap devices in the disconnected state, and wherein in response to an out-of-band communication that is determined to be from an out-of-band device of the whitelist for the specific connection port, the controller is configured to switch the corresponding set of airgap devices to the connected state, while not enabling access over the data network to the corresponding resource of any other airgap device of the plurality of airgap devices.

10. The circuit board device of any of the preceding claims, wherein the controller is configured to maintain the corresponding set of airgap devices in thein the connected state, and in response to at least one of: an out-of-band communication that is determined to be from an out-of-band device of the whitelist; an expiration of a timer; and/or an occurrence of an ending event, the controller switches each airgap device of the plurality of airgap devices to the disconnected state.

11. The circuit board device of any of the preceding claims, wherein the plurality of airgap devices include one or more mechanical relays, actuators and/or optocouplers.

12. The circuit board device of any of the preceding claims, wherein the out-of-band communication is communicated over a communication protocol or link that utilizes a non-IP radio signal, a LoRa signa, Zigbee, WirelessHART, an Short Message Service (SMS) message, a Public Service Telephone Network (PSTN) signal, or a cellular signal.

13. A system comprising:

an external computer comprising a communication transceiver to communicate with a computing device of a user and a serial transceiver; and

a circuit board according to any of claims 1 through 12, to receive and respond to out-of-commands from the external computer.