CLAIMS:

1. A control system, comprising:

an automation controller; and

a module bay of the automation controller comprising a plurality of bay connectors configured to communicatively couple with module connectors, wherein the module bay and the plurality of bay connectors are configured to coordinate to facilitate communicative coupling with one or more of a plurality of scalable modules,

wherein the module bay comprises an open end configured to enable one of the scalable modules to couple with one or more bay connectors and extend past an edge of the open end.

2. The control system of claim 1, wherein the plurality of bay connectors are arranged with respect to one another such that a first quantity of standard-sized modules or a second quantity of larger than standard-sized modules can be communicatively coupled with the automation controller and disposed within the module bay, wherein the second quantity is less than the first quantity.

3. The control system of claim 2, wherein the plurality of bay connectors are arranged with respect to one another such that five standard-sized modules can be communicatively coupled with the automation controller and disposed within the module bay or such that a triple-standard-sized module and a double-standard-sized module can be communicatively coupled with the automation controller and disposed within the module bay.

~~4. The control system of claim 2, wherein the module bay comprises an open end such that a portion of a larger than standard-sized module coupled with one or more of the plurality of bay connectors can extend outside of the bay module through and beyond an edge of the open end.~~

~~5. The control system of any one of the preceding claims, wherein the module bay comprises an open end configured to facilitate coupling with an extended~~

~~control module such that a portion of the extended control module extends into the open end and beyond an edge of the open end of the module bay.~~

~~6~~4. The control system of any one of the preceding claims, wherein the automation controller comprises a plurality of integral input/output terminals configured to communicate with the one or more scalable modules via the bay connectors when the one or more scalable modules are coupled with the bay connectors.

~~7~~5. The control system of any one of the preceding claims, wherein the automation controller comprises a plurality of status indicators and at least one communication link connector.

~~8~~6. The control system of any one of the preceding claims, wherein the one or more scalable modules comprises scalable-width or scalable-height modules.

~~9~~7. A control system, comprising:

an automation controller;

a module bay of the automation controller comprising a plurality of bay connectors configured to communicatively couple with module connectors; and

one or more of a plurality of scalable modules coupleable with the plurality of bay connectors,

wherein the module bay comprises an open end configured to enable one of the scalable modules to couple with one or more bay connectors and extend past an edge of the open end.

~~10~~8. The control system of claim ~~9~~7, wherein the one or more scalable modules comprise at least one of a standard-width module, a double-standard-width module, or a triple-standard-width module.

~~11~~9. The control system of claim ~~9~~7 or ~~10~~8, wherein the one or more scalable modules comprise at least one module including a display.

~~12~~10. The control system of claim ~~11~~9, wherein the module including the display comprises a plurality of mechanically actuated inputs or a touch screen.

~~13. The control system of any one of claims 9 to 12, wherein the module bay comprises an open end configured to enable a one of the scalable modules to couple with one or more bay connectors and extend past an edge of the open end.~~

~~14~~11. The control system of any one of claims ~~9~~7 to ~~13~~10, comprising at least two scalable-width modules of different widths communicatively coupled to the automation controller via the module bay.

~~15~~12. The control system of any one of claims ~~9~~7 to ~~14~~11, wherein the automation controller comprises a plurality of integral input/output terminals configured to communicate with the one or more scalable modules via the bay connectors when the one or more scalable modules are coupled with the bay connectors.

~~16~~13. The control system of any one of claims ~~9~~7 to ~~15~~12, wherein the one or more scalable modules are sized based on a corresponding printed circuit board size of each scalable module or a geometry desired for cooling each scalable module.

~~17~~14. A method of manufacturing a control system, comprising:

manufacturing an automation controller including a module bay, wherein the module bay includes a plurality of bay connectors configured to communicatively couple with module connectors; and

manufacturing one or more of a plurality of scalable modules coupleable with the plurality of bay connectors,

wherein manufacturing the automation controller comprises manufacturing the module bay to include an open end configured to enable one or more of the scalable modules to couple with one or more bay connectors and extend past an edge of the open end.

~~18. The method of claim 17, comprising manufacturing the module bay to include an open end configured to enable a one or more of the scalable modules to couple with one or more bay connectors and extend past an edge of the open end.~~

~~19~~15. The method of claim ~~17 or 18~~14, comprising manufacturing a scalable module including a display.

~~20~~16. The method of claim ~~17 or 18~~14, comprising manufacturing a scalable module that is sized based on a size of a printed circuit board disposed within the scalable module or based on a geometry desired for cooling of the scalable module.

~~21~~17. The method of any one of claims ~~17~~14 to ~~20~~16, comprising coupling the one or more scalable modules with the automation controller via the module bay.

~~22~~18. The method of any one of claims ~~17~~14 to ~~21~~17, wherein manufacturing the automation controller comprises installing a plurality of input/output terminals configured to communicate with the one or more scalable modules via the bay connectors when the one or more scalable modules are coupled with the bay connectors.