

EMERSON OVATION

SDC100

Ovation software-defined controller

Product identity and technical data

Manufacturer	Emerson
Model	SDC100
Product family	Ovation
Product type	Ovation Software-Defined Controller
Execution environment	VxWorks virtual machine on a Type 1 hypervisor
Controller deployment	Multiple SDC instances can operate on one approved host
I/O role	SCADA-like Ethernet I/O acquisition and control
Third-party integration	Embedded Communication Protocol Suite
Redundancy	Controller redundancy supported

Model-specific summary

SDC100 is an Emerson Ovation Software-Defined Controller for virtualized process-control and Ethernet I/O applications.

The controller runs a VxWorks virtual machine on a Type 1 hypervisor, supports multiple controller instances per approved host, and uses the Ovation Communication Protocol Suite for supported third-party devices.

Configuration and selection checks

Additional technical data

Engineering	Standard Ovation engineering tools
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Virtualization

- The controller runtime is delivered as a VxWorks virtual machine
- A Type 1 hypervisor provides the documented execution layer
- Configurable virtual hardware parameters support engineered resource allocation

Integration

- SCADA-like Ethernet I/O acquisition and control are supported
- The embedded Communication Protocol Suite interfaces supported Ethernet devices
- Direct connections can be engineered for supported PLC, PAC, and RTAC platforms

Resilience

- Controller redundancy is available for SDC100 deployments
- Standard Ovation engineering tools are used for configuration
- Multiple SDC instances reduce physical controller footprint on an approved host

Application

- Virtualized Ovation process-control execution
- SCADA-like Ethernet I/O acquisition and control
- Consolidation of multiple Ovation controller instances on an approved host

Selection note

SDC100 deployment must use the approved virtualization host, hypervisor, Ovation software release, Ethernet I/O design, redundancy plan, and validated resource allocation.