

EMERSON OVATION

OCC100

Ovation compact controller for distributed control

Product identity and technical data

Manufacturer	Emerson
Model	OCC100
Product family	Ovation
Product type	Ovation Compact Controller
Processor	Dual-core 667 MHz ARM Cortex-A9
Memory	256 MB DDR3 SDRAM
Flash storage	1 GB USB flash
Base options	Simplex base or redundant base
Ovation I/O branches	1 branch on simplex base; 3 branches on redundant base

Model-specific summary

OCC100 is an Emerson Ovation Compact Controller for small-scale and widely distributed Ovation control systems.

The unit combines a dual-core ARM processing platform, local and remote Ovation I/O support, embedded communication-protocol drivers, and optional redundant operation.

Configuration and selection checks

Additional technical data

Remote I/O	Up to 16 remote nodes; up to 64 Ovation I/O modules per node
Mounting	DIN rail
Module service	Hot-swappable; integrated temperature monitoring

Base

- The simplex base provides one connector for a branch of eight Ovation I/O modules
- The redundant base provides three connectors for three branches of eight Ovation I/O modules
- Nonvolatile MAC modules on the redundant base preserve controller network identity

Control

- Control functions include PID, sequence, Boolean, logic, timing, and advanced control
- The controller supports data acquisition, alarms, sensor checks, and sequence-of-events processing
- A redundant controller pair provides automatic bumpless failover

Networking

- WAN operation tolerates low-bandwidth and intermittent network conditions
- Embedded Communication Protocol drivers connect supported third-party PLC, PAC, and RTAC devices
- An optional Ovation remote station supports standalone-system configurations

Application

- Small-scale distributed control applications
- Renewable-energy and microgrid control
- Small water and wastewater control systems

Selection note

OCC100 selection must match the simplex or redundant base, Ovation I/O branch count, remote-node architecture, network design, and saved controller configuration.