

EMERSON OVATION

OCR3000

Ovation compact redundant controller

Product identity and technical data

Manufacturer	Emerson
Model	OCR3000
Product family	Ovation Controllers
Product type	Compact redundant controller
Processor architecture	Quad-core system-on-chip
I/O scan	Parallel scan of 16 I/O branches
Controller capacity	Up to 64,000 points
Control tasks	Five
Task periods	10 ms to 300 s

Product summary

Emerson OCR3000 is a compact Ovation controller that combines controller and I/O-interface functions in one module for redundant process-control architectures.

Its quad-core platform scans 16 I/O branches in parallel, supports copper or SFP Ethernet and remains application-compatible with the OCR1100 controller.

Before deployment, verify the redundant-controller design, network media, I/O branches, software release, protocol drivers and migrated controller application.

Configuration and selection checks

Additional technical data

I/O compatibility	All Ovation I/O modules
Network media	Copper Ethernet and SFP Ethernet
Firmware security	Cryptographically signed firmware
Standards	CE marked; IEC 61131-2

Architecture

- A single module combines the controller and I/O-interface functions.
- Primary and backup controllers communicate through an integrated backplane path.
- The controller supports redundant operation in the Ovation architecture.

Connectivity

- Copper Ethernet connections are supported.
- SFP Ethernet interfaces provide an optical-media option.
- Embedded protocol drivers support communications with third-party devices.

Security

- Controller firmware is protected by cryptographic signing.
- The controller is documented as CE marked.
- The hardware is specified in the IEC 61131-2 controller-equipment context.