

Fact Sheet

## VACON® OPT-E9



Ethernet communication option card supporting connectivity through Modbus TCP/UDP, PROFINET and EtherNet/IP protocols.

The OPT-E9 option is a dual-port

The single hardware option offers for the greatest flexibility by allowing the user to select from three highly prevalent communications protocols in the industrial market.

The option features a built-in switch, facilitating traditional line network topology. The option also supports the use of ring topologies through RSTP or MRP protocols. Additionally, it features bus cycles down to 1ms for highly demanding applications where response time is critical.

This option is configurable over Ethernet through VACON® NCIPConfig and NCDrive for VACON® NXP, and through VACON® Live for VACON® 100 products. Configuration over Ethernet is not supported in VACON® 20 products.

The OPT-E9 firmware is field upgradable through VACON® Loader.

#### Other features

- Simple integration with PLC configuration tools via supported device description files (GSDML, EDS, EDD)
- Predefined function blocks for simple programming
- Built-in switch eliminating the need for external hardware
- Robust against high network load (PROFINET Netload Class III)

#### **Application protocols**

- Modbus TCP/UDP
- PROFINET (Conformance Class B)
- EtherNet/IP
- Vendor-independent profiles supported (CIP and PROFIdrive)
- Vendor-specific 'bypass' mode for special applications
- DHCP (Dynamic Host Configuration Protocol) automatic IP address configuration
- RSTP (Rapid Spanning Tree Protocol)
- SNMP (Simple Network Management Protocol)
- ACD (Address Collision Detection)
- When using PROFINET: MRP (Media Redundancy Protocol) and LLDP (Link Layer Discovery Protocol)
- Supports connection to VACON® Live and VACON® NCDrive over TCP/IP

## **Ordering Number:**

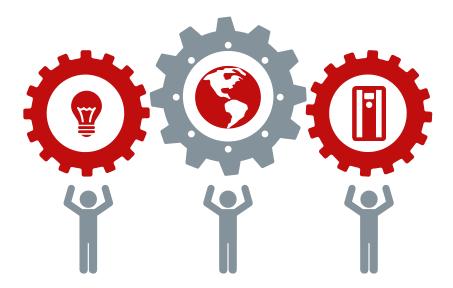
Loose Option: OPT-E9-V For VACON® 100 As Plus Code: +S\_E9 For NXP: E9

OPT-E9 compatible with:

- VACON® NXP
- VACON® 100 INDUSTRIAL
- VACON® 100 FLOW
- VACON® 100 X
- VACON® 20\*
- VACON® 20 X
- VACON® 20 Cold Plate

\*Mounting in VACON® 20 requires Option Card Mounting Kit

Feature	Benefit
Freely select from three highly prevalent communications protocols in one hardware	Great application flexibility
Bus cycles down to 1ms	Facilitating highly demanding applications where response time is critical.
Built-in switch	No need for external hardware
Predefined function blocks	Simple programming
Supports ring topology	A single fault in one of the Ethernet cables, or one of the devices in the ring, will not lead to loss of the communication to all devices.
Supports PC tool connection over Ethernet	Convenient configuration and monitoring of the products
Tolerant against high network traffic volume	Bursts or storms in the network are less likely to cause disturbance in the operation of the product



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