

Fact Sheet

VACON® OPTEA Advanced Dual-port Ethernet board



Ordering number:

Loose Option: OPTEA-V

For VACON® 100 As Plus Code: +S_EA

For NXP: EA

OPTEA compatible with:

- VACON® NXP
- VACON® 100 INDUSTRIAL
- VACON® 100 FLOW
- VACON® 100 X

PROFIsafe and system redundancy

for the most
demanding
applications

The OPTEA is an advanced dual-port Ethernet communication option. It supports connectivity through PROFIsafe for VACON® NXP, PROFINET with System redundancy S2 and features as also Modbus TCP/UDP and EtherNet/IP.

OPTEA has emulation mode for NXP Ethernet option boards OPTCI, OPTCP and OPTCQ. This reduces complexity allowing the customer to use only one variant OPTEA.

The single OPTEA hardware option offers 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. It supports the use of ring topologies through RSTP, MRP or DLR protocols, and features bus cycles down to 1ms and 16 process data for highly demanding applications.

OPTEA is configurable over Ethernet through VACON® NCIPConfig and NCDriver for VACON® NXP, and through VACON® Live for VACON® 100 products.

The OPTEA firmware is field upgradable through VACON® Loader.

Feature	Benefit
PROFIsafe over PROFINET IO for VACON® NXP	Integrated safety-certified protocol
PROFINET IO System Redundancy S2	High availability to critical systems
OPTEA performs with all advanced features and as OPTE9	Great application flexibility
Emulation of OPTCI, OPTCP and OPTCQ	- Simple spare-part replacement of Ethernet-based option boards OPTCI, OPTCP and OPTCQ in VACON® NXP - Offers flexibility to upgrade communication protocol in future
Predefined function blocks with source code	- Simple programming - Available free of charge
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
Bus cycles down to 1 ms and 16 process data units	Facilitating highly demanding applications
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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