

CANoe RT Rack

High-Performance Industrial PC with Optimized Real-Time Operating System

What is CANoe RT Rack?

CANoe RT Rack is an industrial PC with a real-time operating system that is optimized for CANoe RT operation. Its modular layout makes it possible to use any of the PCI or PCIe cards available from Vector. Cards from third-party suppliers, such as I/O cards from National Instruments, can be integrated smoothly as well.

Overview of Advantages

- > High-performance industrial PC with powerful CPU
- > Flexibility due to modular layout that utilizes standard PCI/PCIe cards
- > High computing power due to optimized Windows Embedded operating system
- > Ideal platform for applications with many channels and real-time requirements
- > All CANoe RT configurations are fully compatible with conventional "non-RT configurations"
- > Vector preconfigures the CANoe RT Rack for you, including channel allocation, according to the interface cards ordered and the preinstalled CANoe version

Application Area

Only those parts of a simulation relevant to real-time requirements are executed on the high-performance CANoe RT Rack. Normal workplace computers are used to configure and evaluate a simulation. This partitioning of roles with the CANoe RT Rack increases overall simulation performance and prevents negative effects of the graphic system on latency times and timer precisions.

Variants

CANoe RT Rack is optimized for executing CANoe simulations. However, the rack can also be delivered as an industrial PC respectively IPC without CANoe preconfigured.

More information about simulation with CANoe:

www.vector.com/canoe_simulation



The high-performance CANoe RT Rack with optimized embedded real-time operating system and flexible connection options for various PCI and PCIe cards (illustration is similar).

Technical Data	
Housing	19 inch industrial PC „HS236E“ ACP-4020BP-00XE, 4 height units 15 slot backplane, color: silver/anthracite
Dimensions	4 height units, dimensions (W x D x H): 482 mm x 348 mm x 177 mm
CPU	Slot CPU: PCE-4129G2-00A1E (PICMG 1.3) Socket: 1150 (XEON E3-1200v5 Series) 2x SO-DDR3 (max. 32GB), 4x SATA, VGA, DVI-D, DisplayPort 2x Gigabit Ethernet, 3x USB 3.0, 6x USB 2.0
Backplane	PCE-4B13-00A1E PICMG 1.3 with 1x PCIeX16 (X8 signal), 11x PCIeX16 (X4 signal), 3x USB 3.0
Processor	Intel XEON E3-1275v5/E3-1275v6
Processor cooling	yes
Memory	32 GB (2x 16 GB)
Power supply	ATX power supply 500 W Silent (100 V ... 240 V ±10 %)
Silent housing fan	yes
Northbridge cooling	yes
Hard drive	SSD 240GB (24/7, SATA)
External interfaces	2x USB 2.0 front, 3x USB 3.0 rear, 2x GbLAN, DVI-D, DisplayPort
Operating system	CANoe RT Rack variant: Windows 7 Embedded Standard, 32 Bit IPC variant: Windows 7 Ultimate, 64 Bit