

# 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 and is pre-installed for you. However, the rack can also be delivered as an industrial PC without CANoe pre-installed.

#### More information about simulation with CANoe:

[www.vector.com/canoe\\_simulation](http://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	Industrial PC HS236E	Industrial PC AS236E
Housing	19" IPC „HS236E“ ACP-4020BP-00XE, 4 height units, 15 slot backplane	19" IPC «AS236E», 4 height units, 7 slot backplane
Dimensions	4 height units, dimensions (W x D x H): 482 mm x 348 mm x 177 mm	4 height units, dimensions (W x D x H): 482 mm x 380 mm x 177 mm
CPU	Slot CPU: PCE-4129G2-00A1E (PICMG 1.3) Socket: 1151 (XEON E3-1200v5 Series) 2x SO-DDR3 (max. 32 GB)	Mainboard: Supermicro X11SAE Socket: 1151 (XEON E3-1200v5 Series) 4x DDR4 (max. 64 GB) , HDMI, TPM 2.0 Modul
Backplane	PCE-4B13-00A1E PICMG 1.3 with 1x PCIeX16 (X8 Signal), 10x PCIeX16 (X4 Signal), 3x USB 3.0, 4x SATA	2x PCIeX16 (X8 Signal), 3x PCIeX1, 2x PCI, 8x SATA, 1x M.2 (PCIeX4)
Processor	Intel XEON E3-1275v5/E3-1275v6	Intel XEON E3-1275v5
Processor cooling	yes	yes
Memory	32 GB (2x 16 GB)	16 GB (1x 16 GB)
Power supply	ATX power supply 500 W Silent (100 V ... 240 V ±10 %)	ATX power supply 500 W Silent (100 V ... 240 V ±10 %)
Silent housing fan	2x	1x
Hard drive	SSD 256 GB (24/7, SATA)	SSD 256 GB (24/7, SATA)
External interfaces	Front: 2x USB 2.0 Rear: 3x USB 3.0, 2x GbLAN, DVI-D, DisplayPort	Front: 2x USB 2.0 Rear: 2x USB 3.1, 2x USB 3.0, 2x USB 2.0, 2x GbLAN, HDMI, DVI-D, DisplayPort
Operating system CANoe RT Rack	Windows 7 Embedded Standard (64 Bit)	Windows 7 Embedded Standard (64 Bit)
Operating system Industrial PC	Windows 7 Ultimate (64 Bit) or Windows 10 Pro (64 Bit)	Windows 7 Ultimate (64 Bit) or Windows 10 Pro (64 Bit)