

Embedded Box PC Bundles

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Embedded Box PC Bundles

SIMATIC IPC227D / IPC427C / IPC427D - Ready-to-run Box PC systems with integrated HMI and Controller functionality

SIMATIC IPC227D and IPC427C / IPC427D bundles are ready-to-run installed rail-mounted PCs with high industrial capability and are available in four versions.

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Area of application

The IPC227D is suitable for the realization of simple control, visualization and communication tasks.

The IPC427C / IPC427D is perfect for tasks with high requirements on the control (real time and deterministic) as well as visualization, technology functions and data processing.

The common qualities are:

- Compact use without operator input
- Use with detached screen, e.g. SIMATIC Flat Panels
- Machine-level installation
- Use of customer-specific hardware and software
- For safety-oriented applications, there is also a TÜV-certified, fail-safe bundle version with the fail-safe software controller SIMATIC WinAC RTX F

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Benefits

The embedded Box PC bundles stands for high ruggedness with fan and hard disk less operation.

- Turn-key system that is tested and adapted to the hardware
- Rugged and space saving design
- Operation without a fan or hard disk, maintenance free

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Design and functions

SIMATIC IPC227D

Software configuration	SIMATIC WinAC RTX	SIMATIC WinAC RTX F	SIMATIC WinCC RT Advanced
WinAC RTX	o		
WinAC RTX, WinCC RT Advanced	o		o
WinCC RT Advanced			o
WinAC RTX F		o	
WinAC RTX F, WinCC RT Advanced		o	o

SIMATIC IPC427D

Software configuration	SIMATIC WinAC RTX	SIMATIC WinAC RTX F	SIMATIC WinCC RT Advanced
WinAC RTX	o		
WinAC RTX, WinCC RT Advanced	o		o
WinCC RT Advanced			o
WinAC RTX F		o	
WinAC RTX F, WinCC RT Advanced		o	o

SIMATIC IPC427C

Software configuration	SIMATIC WinAC RTX	SIMATIC WinAC RTX F	SIMATIC WinCC flexible RT	SIMATIC WinCC RT Advanced	SIMATIC WinCC
WinAC RTX	o				
WinAC RTX, WinCC flexible RT	o		o		
WinAC RTX, WinCC RT Advanced	o			o	
WinCC flexible RT			o		
WinCC RT Advanced				o	
WinAC RTX F		o			
WinAC RTX F, WinCC flexible RT		o	o		
WinAC RTX F, WinCC RT Advanced		o		o	
WinCC V7.0					o
WinCC RT Professional					o

The SIMATIC WinAC RTX software controller and the HMI software SIMATIC WinCC are pre-installed and pre-configured:

The SIMATIC WinAC RTX software controller handles the actual control task and execution of the user program.

The HMI software SIMATIC WinCC allows machine-level visualization including archives and recipes.

In addition, the fail-safe version SIMATIC WinAC RTX F offers the following advantages:

Programmable with S7 Distributed Safety V5.4

Fail-safe communication using PROFI-safe via PROFIBUS and PROFINET

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