

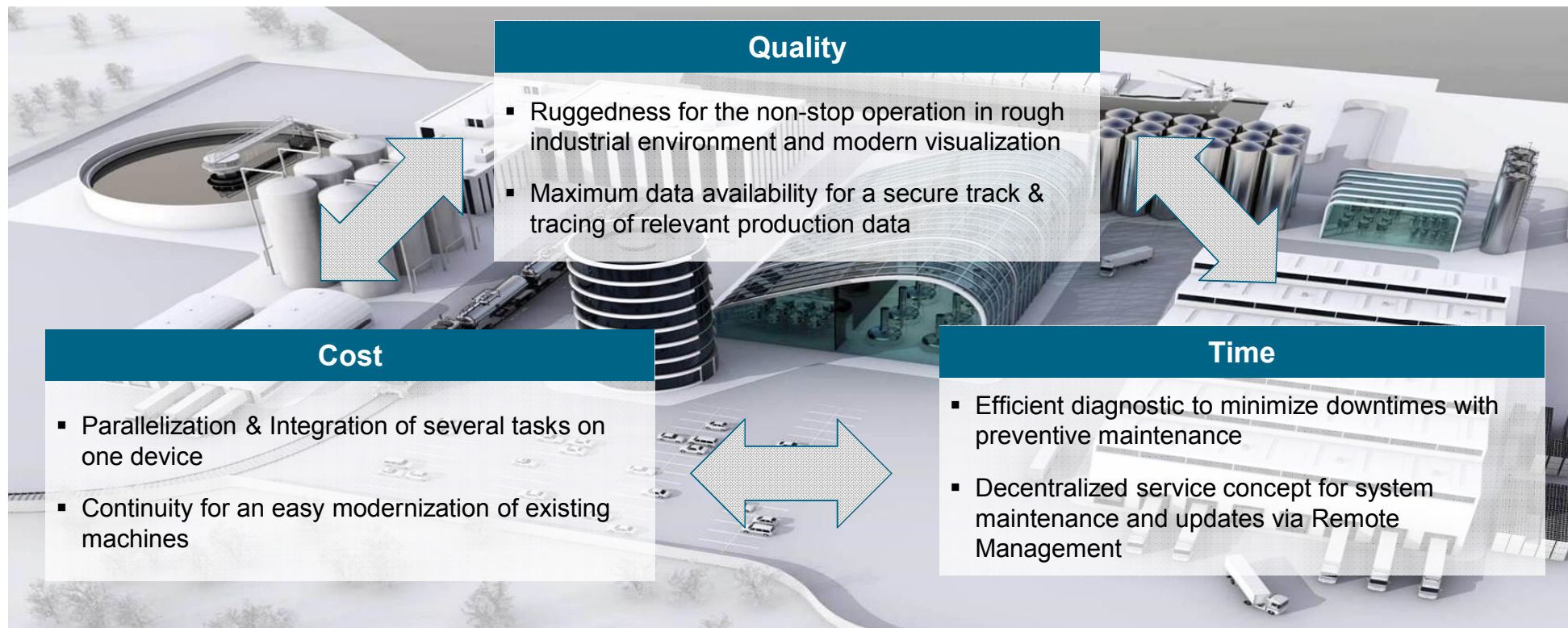


SIMATIC IPC627D, IPC827D and IPC677D

High Performance and Expandability with robust industrial Design





Market Trends for Industrial PCs in the upper Performance Segment

Improvement of the Productivity for complex Automation Solutions



Box PCs SIMATIC IPC627D, IPC827D and Panel PC SIMATIC IPC677D

Innovated high-end IPCs for demanding automation solutions

		Rack PC	Box PC	Panel PC	
Embedded industrial PCs Highly rugged Highly compact Maintenance-free	2xx series optimized performance, highly compact 4xx series high performance, highly compact				Long-term availability: 4 – 6 years plus 5 years repair and spare part service
High-end industrial PCs Very rugged High performance High functionality	6xx series compact 8xx series expandable				Long-term availability: 4 – 6 years plus 5 years repair and spare part service
Industrial PCs Robust Attractive prices	5xx series maximum performance, latest PC technology 3xx series high performance, optimized price				Long-term availability: 1.5 – 2 years plus 3 years repair and spare part service Long-term availability: 1 year plus 1 year repair and spare part service

Closeness to machine

High-end SIMATIC Box PCs and SIMATIC Panel PC

The best Features the PC-Technology can offer the Automation Industry

High performance with Intel Core processors of the 4th generation.
Now also with Intel Xeon processors for even more performance



Maximum ruggedness and reliability for the installation direct at the machine



Great expandability with up to 5 PCIe cards for more flexibility



Secure data storage with RAID system for a long-term data availability

Modern visualization with up to brilliant 22" Full HD Display as singletouch or multitouch



SIMATIC IPC – Part of Totally Integrated Automation

The perfect Interplay – System-tested and with maximum Engineering Efficiency



Totally Integrated Automation
Efficient interoperability of all automation components

Easy and reliable realization of automation solutions with optimally synchronized and SIMATIC tested hard- and software ✓

- High protection of current investment and reduced risk of failures in case of system expansion

Efficient engineering with the TIA Portal ✓

- Reduction of engineering effort for control and visualization programs

Price advantages for control and visualization solutions with SIMATIC software packages (WinAC, WinCC) ✓

Top Highlights of the High-end Box PCs and Panel PC

High performance and state-of-the-art PC-technology for greater Productivity



Feature / Function

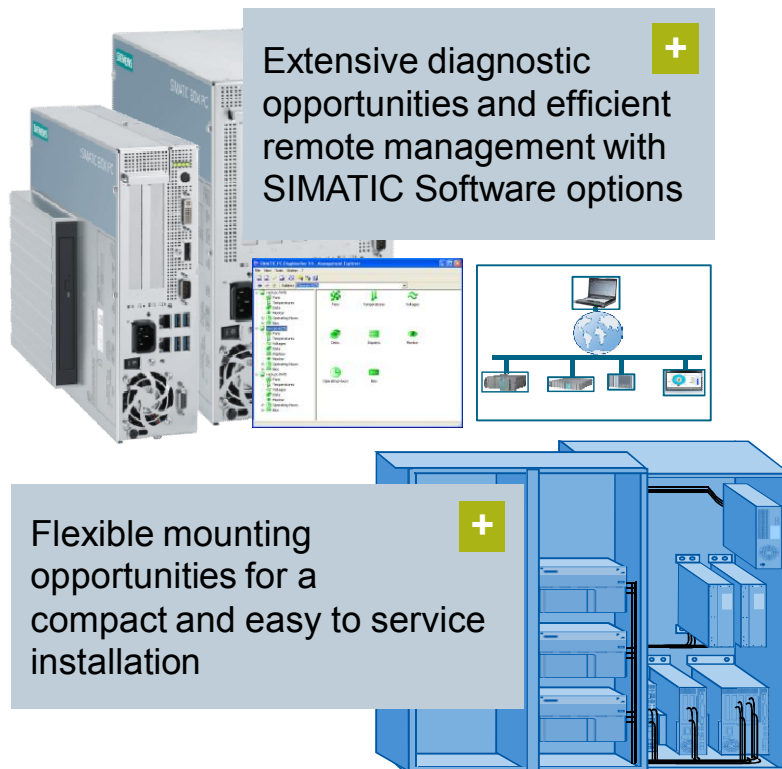
- 4th generation of Intel Core and now also Xeon processors
- RAID system in removable frame for direct access
- State-of-the-art PC-technology and interfaces combined with a robust industrial design
- Service and support period of up to 11 years

Benefit

- Increased productivity with maximum performance and parallelization of applications
- Increased data availability and maintenance friendliness
- Maximum flexibility and greatest system availability
- Unique investment protection beyond the short innovation cycles of the PC industry

Box PCs SIMATIC IPC627D/827D

High Performance and Functionality in a robust yet compact Design



Maximum processing power up to 55° C operating temperature

Benefit

- Early diagnostics and efficient maintenance options for reduction of downtimes
- Ruggedness and great quality for highest system availability in versatile applications
- Space-saving realization of high-performance solutions with reduced service and installation efforts

Panel PC SIMATIC IPC677D

High Performance & modern Display Technology for Machine Operation and Control






Benefit

- Intuitive control concepts with multitouch functionality at proven ruggedness
- Uniform SIMATIC Panel Design enables efficient engineering with common look & feel for the operator
- Easy and flexible integration of further automation components and linkage to automation system

SIMATIC IPC627D, IPC827D and IPC677D

Overview Product Data

	Box PC SIMATIC IPC627D 	Box PC SIMATIC IPC827D 	Panel PC SIMATIC IPC677D 
Processors	<ul style="list-style-type: none"> ▪ Xeon E3-1268L v3 – 4 Cores / 8 Threads, 2.3 (3.3) GHz ▪ Core i3-4330TE – 2 Cores / 4 Threads, 2.4 GHz ▪ Celeron G1820TE – 2 Cores / 2 Threads, 2.2 GHz 		
Main memory	<ul style="list-style-type: none"> ▪ From 2 GByte DDR3-1600 SDRAM configurable up to 16 Gbyte, ECC optionally ▪ Remanent memory: 2 Mbyte buffered SRAM optionally 		
Expansion slots	<ul style="list-style-type: none"> ▪ 2 x PCI (185mm) or ▪ 2 x PCIe (185mm) or ▪ 1 x PCI und 1 x PCIe x16 (185/185 mm) 	<ul style="list-style-type: none"> ▪ 2x PCI (240mm), 1 x PCI (185 mm), 1x PCIe x4 (185 mm), 1 x PCIe x16 (185 mm) 	<ul style="list-style-type: none"> ▪ 2 x PCI (185mm) or ▪ 2 x PCIe (185mm) or ▪ 1 x PCI und 1 x PCIe x16 (185/185 mm)
Drives	<ul style="list-style-type: none"> ▪ 250 GB; 320GB; 500 GB or SSD 80/240 GB ▪ RAID1: 2 x 320 GB HDD in removable frame or internal 		
Display (resolution) / display interfaces	<ul style="list-style-type: none"> ▪ 1 x DisplayPort ▪ 1 x DVI-I 		<ul style="list-style-type: none"> ▪ 22" (1920 x 1080) single-/multitouch ▪ 19" (1366 x 768) single-/multitouch ▪ 15" (1366 x 768) multitouch ▪ 15" (1280 x 800) singletouch
Operating environment	<ul style="list-style-type: none"> ▪ 5 - 55°C ▪ 1g Vibration, 5g Shock (30 ms) 		<ul style="list-style-type: none"> ▪ 5 - 45°C ▪ 1g Vibration, 5g Shock (30 ms)

Applications

High Performance, Expandability and Ruggedness for machine-oriented Installations



Instrumentation – Control – Automation

- Great performance and opportunity for parallelization of tasks
- Ruggedness and reliability



Integration of Visualization and Control at the machine

- High data and system availability
- Modern visualization with long-term investment protection



Quality Control and Image Processing Systems

- Huge expandability yet compact and flexible installation
- Maximum performance for fast data processing

Customer Reference Zind

PC-based System for optical Quality Control



Application:

Optical control of print image for paint shop machines for cans and tubes with a IPC627C

Customer: Fa. Zind (Karlsruhe/ Germany)

Industry: Image Processing / Packaging machines

Customer Benefit and Decision Criteria pro Siemens:

- High performance combined with robust design for the installation directly in the machine
- Great expandability and openness
- Flexible installation options and compact dimensions

SIMATIC IPC627D, IPC827D und IPC677D

Discover more...

SIMATIC IPC Videos

Learn more about the functionality of the SIMATIC high-end IPCs

[video high-end IPC](#)



TIA Selection Tool

Configure your own IPC –
easy and comfortable

[siemens.com/tia-selection-tool](https://www.siemens.com/tia-selection-tool)



SIMATIC IPC Brochure

Discover the full spectrum of the SIMATIC IPCs

[SIMATIC IPC - Brochure](#)





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