

SIEMENS



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Annuncio nuovo prodotto SIMATIC IPC827C

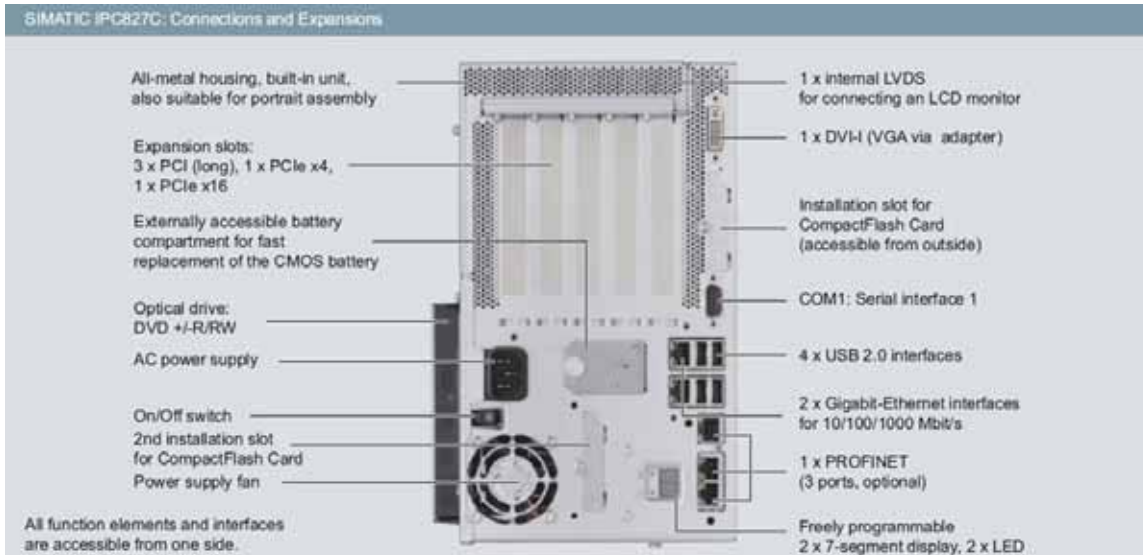
A partire da oggi è disponibile il nuovo **SIMATIC IPC827C** con processore intel Core i5 e i7!



Caratteristiche chiave del SIMATIC IPC827C

- Massima potenza di calcolo grazie al processore mobile Intel® Core i7-610E a 2.53 GHz con Turbo Boost e Hyper Threading
- Tutti i IPC sono equipaggiati con CPU Dual Core
- RAM DDR3 fino a 4 GB con ECC
- Nuova opzione SSD con 32B per trasferimento dei dati ad alta velocità
- HDD con capacità fino a 500GB, RAID 1 o Compact Flash (solo con Windows Embedded)
- Doppia GBit LAN con capacità di teaming
- Interfaccia opzionale PROFIBUS o PROFINET (con tre porte) per il collegamento economico di apparecchiature a SIMATIC S7
- PCIe x16 slot with graphics card support
- Disponibile anche con il Sistema Operativo Microsoft Windows 7 Ultimate
- Due display a 7 segmenti e due LED di stato per visualizzazione del processo di avvio del BIOS o liberamente programmabili durante il funzionamento
- Installazione flessibile nel quadro elettrico: montaggio frontale, a libro o con gli appositi angolari di supporto

- Massima potenza di calcolo senza degrado di performance (throttling) con temperature ambiente da 5 a 55 °C
- Wake-on-LAN per l'avvio mirato degli IPC da una postazione centrale tramite la rete, ad es. dopo un fine settimana senza produzione.
- Certificazioni UL e CE per l'uso in aree residenziali e commerciali



Compatibilità IPC827C vs. Box PC 827B

Vedasi pagine seguenti

Sicurezza di Investimento

Il SIMATIC IPC827C sarà disponibile alla vendita per un lungo tempo (circa 3 anni), inoltre saranno disponibili i ricambi dei componenti per ulteriori 5 anni dalla data di dismissione.

Questo dispositivo è la continuità logica del SIMATIC Box PC 827B, al quale rimane compatibile al 100% per quanto concerne il montaggio.





I SIMATIC IPC827C e SIMATIC Box PC 827B non sono compatibili a livello di immagine in quando la componentistica usata sui nuovi PC risulta più avanzata.

Technical Information Box IPC827C

Compatibilità

Dati tecnici con differenze tra SIMATIC IPC827C e SIMATIC Box PC 827B (differenze in [blu](#))

Product Name	SIMATIC IPC827C (New)	SIMATIC Box PC 827B (previous)
Platform	Intel Core i 	Intel Core 2 Duo 
Order no.	6ES7647-6P...	6ES7647-6N...
Delivery release	February 2011	available
Design	Box PC	Box PC
Microprocessors	<ul style="list-style-type: none"> Core i7-620E, 2.53 GHz, 2 Cores, 4 Threads, 4 MB, Cache, TB, HT, VT-x, VT-d; *) Core i3-330E, 2.13GHz, 2 Cores, 4 Threads, 3MB Cache, HT, VT-x; Celeron P4505, 1.86 GHz, 2 Cores, 2 Threads, 2MB Cache <p>*) The new features are explained below</p>	<ul style="list-style-type: none"> Core2 Duo T7400, 2.16 GHz 677MHz FSB, 4MB L2-Cache Core2 Duo T5500, 1.66 GHz, 677 MHz FSB, 2MB L2-Cache Celeron M 440, 1.86 GHz, 533 FSB, 1MB L2-Cache
Chipset	Intel BD82QM57 Platform Controller Hub (PCH)	Intel 945GM Express
Main memory	<ul style="list-style-type: none"> 1 GB and more DDR3 1066 expandable to 4 GB 2 DIMM socket ECC optional 	<ul style="list-style-type: none"> 256 MB and more DDR2 667 expandable to 4 GB 2 DIMM socket
Expansion slots	<ul style="list-style-type: none"> 2 PCI (290 mm) 1 PCI (240 mm) 1 PCIe x4 (185 mm) 1 PCIe x16 (240mm) 	<ul style="list-style-type: none"> 4 PCI (265mm) 1 PCIe x4 (175 mm) <p>or</p> <ul style="list-style-type: none"> 2 PCI (265 mm) 3 PCIe x4 (175 mm)
Graphics		
Graphics controller	Intel HD Graphics with Dynamic	Intel GMA 950

	Frequency, integrated in chipset	integrated in chipset
Graphics memory	up to 256 MB (Shared Memory)	up to 128 MB (Shared Memory)
Resolution	1280 x 1024 Pixels	1280 x 1024 Pixels
Frequencies	100Hz,	100Hz
Colors	32 Bit	32 Bit
Operating system		
without	yes	yes
Windows 2000 Prof. MUI	no	yes (preinstalled & activated)
Windows Vista Ultimate MUI	no	yes (preinstalled & activated)
Windows XP Prof. MUI	yes (preinstalled & activated)	yes preinstalled & activated)
Windows 7 Ultimate 32 Bit MUI	yes (preinstalled & activated)	no
Windows XP Embedded	Windows Embedded Standard 2009 on 8-GB Siemens Compact Flash (preinstalled & activated)	Windows XP Embedded (en) on 2-GB Siemens CompactFlash (preinstalled & activated)
Power supply		
120/230 V AC, wide range	yes	yes
24 V DC	yes	yes
Mains switch	yes	yes
Drives		
Hard disk drives (HDD)	Serial-ATA <ul style="list-style-type: none"> 250 GB, 3.5" 500 GB, 3.5" 2x 320 GB, 2.5" (optional) RAID1, 2x 320 GB, 2.5" (optional) 	Serial-ATA <ul style="list-style-type: none"> 160 GB, 3.5" 250 GB, 3.5" 2x 80 GB, 2.5" (optional) RAID1, 2x 80 GB, 2.5" (optional)
Solid-State Drive (SSD)	Serial-ATA <ul style="list-style-type: none"> 32 GB, 2.5" (optional) 	no
Flash Drive (accessible from outside)	yes	yes
Flash Drive (built-in)	yes with Windows Embedded Standard on 8-GB Siemens CompactFlash (optional, instead of ODD and HDD) <p>Note: this option permits the design of systems with 2x CF in conjunction with the externally accessible Flash Drive</p>	yes with Windows Embedded Standard on 2-GB Siemens CompactFlash (optional, instead of ODD and HDD) <p>Note: this option permits the design of systems with 2x CF in conjunction with the externally accessible Flash Drive</p>

RAID1 Controller	Intel Rapid Storage Technology integrated in chipset	Intel 82801 FR SATA RAID Controller - onboard
Optical drives (ODD)	DVD±R/RW/-DL/-RAM	DVD±R/RW/-DL/-RAM
Interfaces		
PROFINET	10/100 Mbit/s, Integral 3-port switch (onboard), CP1604-compatible, optional for use as standard interface under Windows (with NDIS driver)	10/100 Mbit/s (CP1604-compatible) optional Integral 3-port switch or use as standard interface under Windows (with NDIS driver)
PROFIBUS/MPI	12 MBit/s, CP5611-compatible (onboard, optional)	12 MBit/s, CP5611-compatible (onboard, optional)
Ethernet	1 x 10/100/1000 MBit/s (RJ45), Intel 82574L 1 x 10/100/1000 MBit/s (RJ45) Intel 82577L teaming ability	2 x 10/100/1000 MBit/s (RJ45) Intel 82573L , teaming ability
USB	4 x USB 2.0 (500mA high current)	4 x USB 2.0 (500mA high current)
VGA/DVI	1 x DVI-I (analog & digital) VGA via adapter cable (accessory)	1 x DVI-I (analog & digital) VGA via adapter cable (accessory)
Dual Monitoring	1x VGA, 1x DVI-D via DVI-I to VGA/DVI-D Y adapter (accessory)	1x VGA, 1x DVI-D via DVI-I to VGA/DVI-D Y adapter (accessory)
Serial	1x RS232 (COM1)	1x RS232 (COM1)
Monitoring functions		
Temperature	yes - temperatures in PC - outside temp.	yes - temperatures in PC - outside temp.
Fan speed	yes	yes
BIOS battery	yes	yes (with SIMATIC PC DiagBase or DiagMonitor)
Watchdog	yes	yes
Monitoring software	<ul style="list-style-type: none"> SIMATIC PC DiagBase (included) SIMATIC PC DiagMonitor (optional) 	<ul style="list-style-type: none"> SOM (included) SIMATIC PC DiagMonitor (optional)
Ambient conditions		
Vibration in operation to DIN IEC 60068-2-6	10 to 58 Hz: 0.075 mm, 58 to 500 Hz: 9.8 m/s ² approx. 1 g	10 to 58 Hz: 0,075 mm, 58 to 500 Hz: 9.8 m/s ² approx. 1 g

	Note: Restrictions with DVD operation	Note: Restrictions with DVD operation
Immunity to shock in operation to IEC 60068-2-27, IEC 60068-2-29	50 m/s ² , 30 ms approx. 5 g Note: Restrictions with DVD operation	50 m/s ² , 30 ms approx. 5 g Note: Restrictions with DVD operation
Temperature in operation to IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14	+ 5 °C to + 45 °C + 5 °C to + 50 °C (with a total power consumption of the slots of max. 20W) + 5 °C bis + 55 °C (with a total power consumption of the slots of max. 10W) Note: Restrictions with DVD operation	+ 5 °C to + 45 °C + 5 °C to + 50 °C (with a total power consumption of the slots of max. 20W) + 5 °C bis + 55 °C (with a total power consumption of the slots of max. 10W) Note: Restrictions with DVD operation
relative humidity - in operation - storage/transport to IEC 60068-2-78, IEC 60068-2-30	5 % to 80 % at 25 °C (no condensation) 5 % to 95 % at 25 °C (no condensation)	5 % to 80 % at 25 °C (no condensation) 5 % to 95 % at 25 °C (no condensation)
Other		
Battery-backed SRAM	2 MB onboard (with Fieldbus versions) max. 256kB can be used for WinAC RTX	2 MB onboard (with Fieldbus versions)
NAU Signal to identify voltage drop (WinAC RTX)	yes, with AC and DC variants	yes, only DC variants
CMOS battery	user-friendly, easy replacement from outside	user-friendly, easy replacement from outside
Wake-On-LAN	yes	no
Interface module (Legacy Support)	PCI interface card for COM2, LPT (PC accessory)	PCI interface card for COM2, LPT (Option)
Portrait installation	yes exit of the interfaces to top or bottom (optional PC accessory)	yes exit of the interfaces to top or bottom (optional PC accessory)

	Note: Not released for DVD operation	Note: Not released for DVD operation
Portrait installation front	yes front exit of the interfaces (optional PC accessory)	yes front exit of the interfaces (optional PC accessory)
Component label	label with PC components (processor, HDD,...) on housing	label with PC components (processor, HDD,...) on housing
Fan	For active heat extraction 1x housing 1x power supply	For active heat extraction 1x housing 1x power supply
Mounting options	5 different mounting options underline flexibility	5 different mounting options underline flexibility
Tensile stress relief for cables	1x for 24V and 230V cables 1x for all USB and Ethernet interfaces (included)	1x for 230 Volt cable 1x for all USB and Ethernet interfaces (included)
Dimensions and weight		
Dimensions (W x H x D in mm)	298 x 301 x 170 298 x 301 x 150 (w/o DVD)	298 x 301 x 170 298 x 301 x 150 (w/o DVD)
Weight	approx. 11 kg	approx. 11 kg

Questo dispositivo è la continuità logica del SIMATIC Box PC 827B, al quale rimane compatibile al 100% per quanto concerne il montaggio.

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New technology and explanations

Feature	Description	Core i7	Core i3	Celeron
Turbo Boost (TB)	The Intel Turbo Boost technology (TB) permits a higher clock rate for the cores, depending on the overall loading of the processor and the ambient temperature. This increases the processor performance. - Core i7: 2.53 GHz to max. 3,2 GHz	X	-	-
Intel HD Graphics with Dynamic Frequency	Similarly to Turbo Boost, this graphics technology can increase the graphics performance under certain conditions. Standard Graphics Base Frequency: 500 MHz Max. Graphics Base Frequency:	X	X	-

	- Core i7: 766 MHz - Core i3: 667 MHz			
Cores (C)	The individual processor cores. - Core i7/i3, Celeron: each have 2 cores (2C)	X	X	X
Thread (T)	Threads are program segments that can be processed in parallel.	X	X	X
Hyper-Threading (HT)	Intel Hyper-Threading technology permits two programs (Threads) to be processed in parallel on one core. Core i7/i3 have 2 cores/4 Threads (2C/4T), i.e. when two Cores are used up to 4 programs can be processed simultaneously. Celeron: 2C/2T: two programs can execute simultaneously on two Cores (no Hyper-Threading)	X	X	-
Intel Virtualization Technology for Directed I/O (VT-d)	Virtualization technology with access to HW components via direct I/O (innovation of VT-x).	X	-	-
Intel Virtualization Technologie (VT-x)	Standard virtualization technology provides special commands for this purpose.	X	X	-
Error Correction Code (ECC)	Enables the identification of user memory errors and correction of 1-bit errors. A feature of the PCH and the memory HW.	X	X	X
Platform Controller Hub (PCH)	Follow-up of the well-known INTEL CHIP set (North-/Southbridge). The PCH no longer has a Northbridge and the Memory Controller is integrated. This architecture increases the performance.	X	X	X