

SPS IPC Drives 2013, Hall 2, Booth 201

High-end industrial PC of the latest generation

- **High-end industrial PC family Simatic IPC of the new D generation for hostile environments in industry**
- **First box, rack, and panel PCs on the market with powerful multi-core processor types Xeon and mobile Core i3 to Core i7 of the fourth generation**
- **Substantially more CPU power and multiplied graphics performance**

Siemens Industry Automation Division is launching a new generation of its high-end industrial PC family Simatic IPC for hostile industrial environments. The new devices of the D generation support the power multi-core processor types Intel Xeon and Intel Core i3 to Core i7 of the fourth generation. They are the first box, rack, and panel industrial PCs of that type on the market. The D devices have 60 to 180 percent higher CPU power than the predecessor models of the C generation. The HD on-board graphics integrated into the CPU with dynamic frequency now achieves three times higher graphics performance. All new IPCs with high long-time availability and industrial functionality are designed for maintenance-free, 24-hour continuous operation and also meet high-temperature, vibration, shock, and EMC requirements.

The Simatic IPC of the new D generation in detail: The compact Box-PC Simatic IPC627D, the versatile expandable box PC Simatic IPC827D and the panel PC Simatic IPC677D available with a 22-inch full HD widescreen display are suitable for fast instrumentation and control tasks and for operator control and monitoring directly at the machine. The comprehensively expandable Simatic IPC847D and the compact Simatic IPC647D from the robust rack PC device series for the 19-inch cabinet installation are used for fast processing of large volumes of data, for example, in instrumentation, on test bays, or in industrial image processing.

With its fast system response, supported by up-to-date PCIe 3.0 and USB 3.0 PC interface technology, the new Simatic IPCs supports challenging and complex automation applications, for example, where instrumentation and control tasks and visualization solutions have to be implemented concurrently in one device. For high availability and data security, secure mass storage and RAID systems are available that enable automatic recovery without changing hard disks. DisplayPort and DVI graphics interfaces are integrated as standard, making dual and multi-monitoring applications simple to implement. An optional PCIe x16 video card permits connection of up to five monitors. The integrated Active Management Technology Intel AMT 9.0 permits convenient remote management for password-protected remote diagnostics and maintenance. All devices also feature fast system diagnostics with status LEDs and pre-installed diagnostics software. Low-loss power supply units with 80 percent efficiency and a wake-on-LAN function make the IPCs especially energy-saving in 24-hour continuous use.

The Simatic IPCs are optionally available with a pre-installed and activated Windows 7 Ultimate (32/64 bit) operating system. Windows Server 2008 R2 can be supplied for the IPC647D and 847D devices.



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