

Industrial PCs Engineering station, Connect server, WinCC station



SIMATIC IPC647D

The SIMATIC IPC647D is a very rugged, high-performance industrial PC in 19" rack design (2 U) with excellent industrial functionality. It offers:

- Extreme compactness
- Extreme ruggedness
- Intel® Core® i/Xeon technology 4th generation





19" Rack Cabinet for IPC

- Holding three IPC (3x2U)
- 18 U hight offer possibilities for expansion
- Including PC screen, keyboard and mice

Engineering station



Engineering station

- HW: IPC647D
- SINEMA RC
- Telecontrol
- WinCC

The Engineering station (ES)

The engineering software run on this hardware. The software licenses provided for the engineering system will be used for configuration and maintenance of included runtime SW SINEMA RC, Telecontrol and WinCC. The ES keep all of the original project configuration in one place, always up-to-date for remote assistance.

SINEMA Remote Connect Server



Connect Server

- HW: IPC647D
- SINEMA RC
- Includes its own operating system, based on Ubuntu 16.04 LTS

SINEMA Remote Connect Server

The SINEMA RC Server provides end-to-end connection management of distributed networks via the Internet. This also includes secure remote access to underlying networks for maintenance, control and diagnostics purposes. The communication between SINEMA RC Server and the remote participants is via a VPN tunnel taking into account the stored access rights. The connection is established encoded using IPsec or OpenVPN. The SINEMA RC Server can be configured via the Web Based Management (WBM). The connection to the WBM via the Internet/WAN takes place over the HTTPS protocol. To establish a connection to the WBM of the server, users must log in by entering a user name and password or with a smartcard

Data Acquisition server



Process value data Acquisition and Archiving

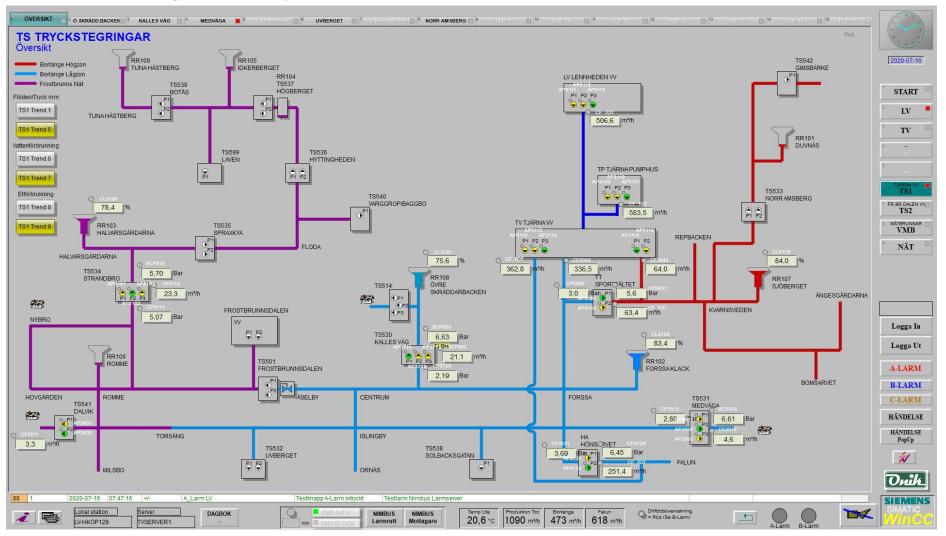
- HW: Industrial PC IPC647D
- Telecontrol Server Basic for communication with RTU
- TCSB include OPC UA Server
- WinCC for monitoring, alarms and process value archive
- SQL-database for archived process values
- Trend windows for historical data (Flow and Pressure)

OPC UA

OPC stands for Open Platform Communications

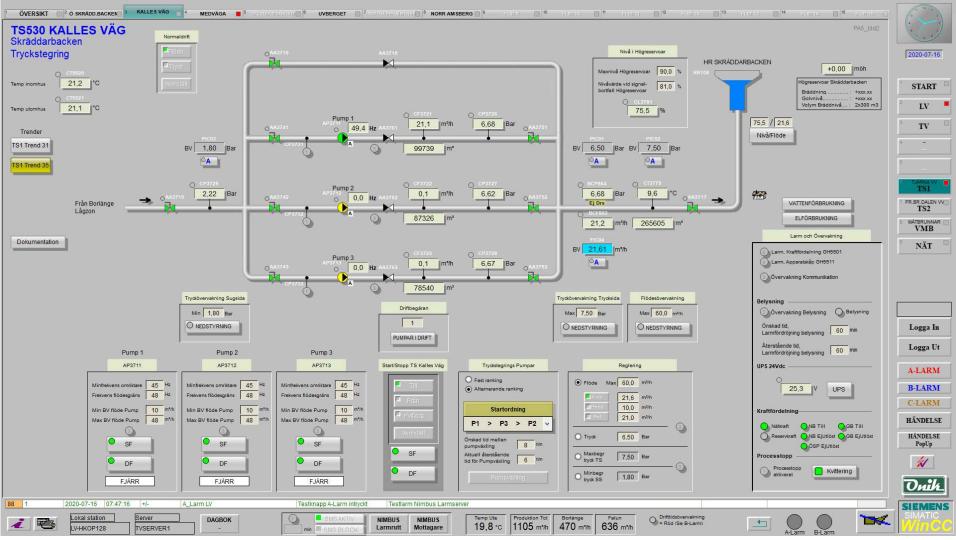
and is one of the most important communication protocols for Industry 4.0 and the IoT. With OPC, access to machines, devices and other systems in the industrial environment is standardized and enables similar and manufacturer-independent data exchange. WinCC for monitoring, alarms and process value archive

Example from site in Borlänge Sweden



WinCC for monitoring, alarms and process value archive

Example from site in Borlänge Sweden



WinCC for monitoring, alarms and process value archive

Example from site in Borlänge Sweden

