What’s New from Siemens Automation
New Improvements with TIA Portal V13 SP1

- Default Online Interface
- PLCSim for 1200
- Pop Ups for Comfort Panels
Structured access to E/As and use the structures in your program and HMI

User defined datatypes can be used as data type for I/O Variables. The I/O’s can be accessed as structure in the PLC program or HMI without any further copy action.

1. Define UDT
2. Define PLC Tag
3. Define HMI Tag of PLC UDT and use in Screen

Tag structure easily shared and used in HMI

Drag and Drop PLC UDT to HMI tag to create HMI UDT

Easy way to reuse Faceplate with only 1 tag to change for new image
New backup allows for a complete copy of running code including the current values of DB’s.
SIMATIC STEP 7 in the TIA Portal - Team engineering
PLC proxy for HMI

Develop PLC and HMI in parallel in the team

- Several developers can develop the PLC and HMI in separate projects
- HMI configuring takes place exactly as in an integrated project
- Data exchange via file or direct project access (TIA and Classic)

NEW Support for PROFINET, PROFIBUS and MPI

NEW Proxy connection of H CPUs

PLC project 1
PLC project 2
PLC project 3

Export proxy
Proxy
Import proxy

Select TIA Portal project in the initialization dialog, select proxy, and import it to the HMI project

Select STEP 7 5.x project in the initialization dialog, select data, and import the data to the HMI project

NEW Select TIA Portal project in the initialization dialog, select proxy, and import it to the HMI project

NEW Select STEP 7 5.x project in the initialization dialog, select data, and import the data to the HMI project
SIMATIC Controllers
Advanced Controller
SIMATIC S7-1500

Software Controller
SIMATIC S7-1500

Distributed Controller
SIMATIC ET 200SP CPU

Basic Controller
SIMATIC S7-1200

Engineered with TIA Portal

Application complexity

System performance

Always the appropriate Controller performance!
SIMATIC S7-1500 – New Controllers in FY14
Positioning/Portfolio Standard CPUs

Standard S7-1500 CPUs

- CPU 1511-1 PN
- CPU 1513-1 PN
- CPU 1515-2 PN
- CPU 1516-3 PN/DP
- CPU 1517-3 PN/DP
- CPU 1518-4 PN/DP

S7-1500 CPU Portfolio - Standard CPUs
Failsafe S7-1500 CPUs

- CPU 1511F-1 PN
- CPU 1513F-1 PN
- CPU 1515F-2 PN
- CPU 1516F-3 PN/DP
- CPU 1517F-3 PN/DP
- CPU 1518F-4 PN/DP

S7-1500 CPU Portfolio – failsafe CPUs

- 416F-3 PN/DP
- 319F-3 PN/DP
- 317F-2 PN/DP
- 317F-2 DP
- 315F-2 PN/DP
- 315F-2 DP

Performance

List Price

- S7-1500F

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Hardware Innovations

+ SIMATIC S7-1500 Compact-CPU:
  + faster Startup sequence

+ New Hardware for
  • each S7-1500(F) CPUs <= 1516(F)
  • each ET 200SP(F) CPUs

+ ET 200SP CPU:
  • support FO-Adapter (with new HW)
  • support ASi-Master

Programming

+ Additional functionality for block “T_Config”
  (IP-address of the NTP-Servers can be changed during runtime)

New Features

+ Support SIMATIC S7 App

New features for display and webserver

+ Write tags / tag status via display and webserver
SIMATIC S7-1500 Compact-CPUs

Highlights

- Highly improved performance and technological functionalities in comparison with S7-300C CPU, e.g. via integrated HSC for counting and frequency measurements with 100kHz input channels
- Starting with a later firmware version the PTO and PWM functionality shall be available for the S7-1500 Compact CPUs → upwards compatibility of S7-1200C to S7-1500C regarding technological functionalities
- PROFINET is the standard interface
- Up to 10% less width compared with a S7-300C CPU
- Simplified ordering:
  - Front connectors are inclusive
  - Reduction of varieties -> two S7-1500 Compact CPUs;
SIMATIC S7-1500 / ET 200 SP CPUs
Highlights with Firmware V1.8 in TIA Portal V13 SP1 UPD4

Support of SIMATIC S7 App

- Secure connection to your SIMATIC S7-1500 and ET 200SP CPU via App, supporting the following functionality:
  - Scanning and establishment of connections to up to 50 CPUs
  - Changing of CPU-Operating mode (RUN/STOP)
  - Retrieving of CPU diagnostic information and sending via E-Mail
  - Changing of variable values
  - Trend view functionality for up to 8 variables
- High security via encrypted communication and encrypted profile data; password needed for startup and for connection
SIMATIC S7-1200 Controller
- S7-1200 FW4 Processors

FW4 Processors, S7-1200

- NEW HW required for all existing CPUs
  – cannot update existing V3 CPUs!

**Cost effective** remote IO solution at Micro Level! – i-Device

**Investment Protection** – Security Enhancements (similar to S7-1500)

**Faster commissioning** – Trace functionality incorporated, mobile web, PLCSim

**Simplified Engineering** – Recipe handling

S7-1200 “V4” CPUs!

- CPU1211C
- CPU1212C
- CPU1214C
- CPU1215C
- CPU1217C
S7-1200 “Safety” CPUs

S7-1200FCC-CPU’s (DC/DC/DC and DC/DC/Rly)

- S7-1214FC
- S7-1215FC

Fail-safe S7-1200 IO-Modules

- SM 1226 F-DI 16 x 24VDC
- SM 1226 F-DQ 4 x 24VDC
- SM 1226 F-DQ 2 x Relay

Software:

- STEP 7 Safety Advanced V13 SP1
- STEP 7 Safety Basic V13 SP1

Low Entry Price Point for SAFETY!
New Market – micro level...
In the Manual on Page 29, click on play button to run functional example.

In the Manual on Page 63, click on play button to run result of programming.
SIMATIC ET 200 SP CPUs
ET200SP CPUs - Operator controls and indicators

- PN Port 3 (RJ45)
- BusAdapter (BA)
- PN Port 1 and PN Port 2 (RJ45, FC, SCRJ)
- LEDs: LINK 1 and LINK 2
- LED: LINK 3
- Cable fixing 90° FC plug
- DC 24V plug
- DIN rail unlocking without tools
- Status and error indicators:
  - STOP/RUN: grin/yellow
  - ERROR: red
  - MAINT: yellow
- Label
- Mode selector:
  - RUN/STOP/MRES
- SIMATIC MC card (SD)

Mounting dimensions B x H x T (mm):
- 100 mm
- 117 mm
- 75 mm

LEDs: LINK 1 and LINK 2

Validation:
- IM151-7, 60mm wide
- IM151-8, 120mm wide
## SIMATIC S7-1500 Standard CPU

<table>
<thead>
<tr>
<th></th>
<th>CPU 1510SP</th>
<th>CPU 1512SP</th>
<th>CPU 1511</th>
<th>CPU 1513</th>
<th>CPU 1515</th>
<th>CPU 1516</th>
<th>CPU 1517</th>
<th>CPU 1518</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU 1510SP</td>
<td>11 $955</td>
<td>11 $1,225</td>
<td>11 $950</td>
<td>11 $2,110</td>
<td>11 $1,510</td>
<td>11 $1,595</td>
<td>11 $6,720</td>
<td>11 $9,775</td>
</tr>
<tr>
<td>CPU 1512SP</td>
<td>11 $955</td>
<td>11 $1,225</td>
<td>11 $950</td>
<td>11 $2,110</td>
<td>11 $1,510</td>
<td>11 $1,595</td>
<td>11 $6,720</td>
<td>11 $9,775</td>
</tr>
<tr>
<td></td>
<td>100 KB Prog. 72 ns Bit Perf. 85 mm Width</td>
<td>200 KB Prog. 1 MB Data 48 ns Bit Perf. 110 mm Width</td>
<td>150 KB Prog. 60 ns Bit Perf. 35 mm Width</td>
<td>300 KB Prog. 40 ns Bit Perf. 35 mm Width</td>
<td>500 KB Prog. 30 ns Bit Perf. 70 mm Width</td>
<td>1 MB Prog. 10 ns Bit Perf. 70 mm Width</td>
<td>2 MB Prog. 2 ns Bit Perf. 175 mm Width</td>
<td>3 MB Prog. 1 ns Bit Perf. 175 mm Width</td>
</tr>
</tbody>
</table>

## SIMATIC S7-1500 Failsafe CPU

<table>
<thead>
<tr>
<th></th>
<th>CPU 1510SP F</th>
<th>CPU 1512SP F</th>
<th>CPU 1511F</th>
<th>CPU 1513F</th>
<th>CPU 1515F</th>
<th>CPU 1516F</th>
<th>CPU 1517F</th>
<th>CPU 1518 F</th>
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<tr>
<td>CPU 1510SP F</td>
<td>11 $1,025</td>
<td>11 $1,425</td>
<td>11 $1,270</td>
<td>11 $2,405</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $10,785</td>
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<tr>
<td>CPU 1512SP F</td>
<td>11 $1,025</td>
<td>11 $1,425</td>
<td>11 $1,270</td>
<td>11 $2,405</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $10,785</td>
</tr>
<tr>
<td>CPU 1511F</td>
<td>11 $1,025</td>
<td>11 $1,270</td>
<td>11 $1,510</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $9,775</td>
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</tr>
<tr>
<td>CPU 1513F</td>
<td>11 $1,025</td>
<td>11 $1,270</td>
<td>11 $2,405</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $9,775</td>
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<tr>
<td>CPU 1515F</td>
<td>11 $1,025</td>
<td>11 $1,270</td>
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<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $9,775</td>
<td></td>
</tr>
<tr>
<td>CPU 1516F</td>
<td>11 $1,025</td>
<td>11 $1,270</td>
<td>11 $2,405</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $9,775</td>
<td></td>
</tr>
<tr>
<td>CPU 1517F</td>
<td>11 $1,025</td>
<td>11 $1,270</td>
<td>11 $2,405</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $9,775</td>
<td></td>
</tr>
<tr>
<td>CPU 1518 F</td>
<td>11 $1,025</td>
<td>11 $1,270</td>
<td>11 $2,405</td>
<td>11 $3,620</td>
<td>11 $5,745</td>
<td>11 $7,425</td>
<td>11 $9,775</td>
<td></td>
</tr>
</tbody>
</table>

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What’s new and coming with SIMATIC PC-based Automation

March 2015
## Targets for SIMATIC PC-based Automation

### FY15 – Product Releases

<table>
<thead>
<tr>
<th>Product</th>
<th>FY 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Open Controller (PC-based)</strong></td>
<td>SPS Show Nuremberg</td>
</tr>
<tr>
<td>ET 200SP Open Controller</td>
<td>Hannover Fair</td>
</tr>
<tr>
<td>“CPU1515SP PC”</td>
<td></td>
</tr>
<tr>
<td>S7-1500 Software Controller</td>
<td></td>
</tr>
<tr>
<td>“CPU150xS”</td>
<td></td>
</tr>
<tr>
<td>IPC Bundles</td>
<td></td>
</tr>
<tr>
<td>“F” version</td>
<td></td>
</tr>
<tr>
<td>ODK1500S</td>
<td></td>
</tr>
<tr>
<td>New “Target”</td>
<td></td>
</tr>
<tr>
<td>(Matlab/Simulink integration)</td>
<td></td>
</tr>
<tr>
<td><strong>Rack PCs</strong></td>
<td></td>
</tr>
<tr>
<td>IPC347D,</td>
<td></td>
</tr>
<tr>
<td>IPC347E,</td>
<td></td>
</tr>
<tr>
<td><strong>Box PCs</strong></td>
<td></td>
</tr>
<tr>
<td>IPC477D/677D</td>
<td></td>
</tr>
<tr>
<td><strong>Panel PCs</strong></td>
<td></td>
</tr>
<tr>
<td>Industrial Flat Panel</td>
<td></td>
</tr>
<tr>
<td>Multi-touch 15”</td>
<td></td>
</tr>
<tr>
<td>Industrial Ethernet Monitor</td>
<td></td>
</tr>
<tr>
<td><strong>Monitors, Thin Clients</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Nano IPCs</strong></td>
<td></td>
</tr>
<tr>
<td>IPC227E</td>
<td></td>
</tr>
<tr>
<td>IPC277E</td>
<td></td>
</tr>
<tr>
<td><strong>Rack PCs IPC347x</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Nano IPCs: new &quot;E&quot; generation</strong></td>
<td>Dual Core &amp; Quad Core CPU’s</td>
</tr>
<tr>
<td></td>
<td>Up to 8 GB RAM</td>
</tr>
<tr>
<td><strong>Multi-touch Flat Panels and Panel PCs</strong></td>
<td>New: 15” fronts (19”, 22” available)</td>
</tr>
<tr>
<td><strong>Industrial Ethernet Monitor</strong></td>
<td>All Signals run over One Ethernet Cable</td>
</tr>
<tr>
<td></td>
<td>Video, Touch and USB 2.0 over TCP/IP (1Gbit / s)</td>
</tr>
</tbody>
</table>

- **ET 200SP Open Controller**
  - All-in-one embedded PC-based controller
  - Fanless, expandable with all ET 200SP modules, S7-1500 Software Controller (F) installed, opt. WinCC installed
- **S7-1500 Software Controller CPU15xxS (F)**
  - 100% Engineering with TIA Portal, Motion integrated, Security integrated, Safety integrated “F” version, C/C++ integration with new ODK
- **New “Target”** for S7-1500 Software Controller Integration of Matlab/Simulink modules
Next Generation of Nano IPCs
Powerful and compact entry platform

Target Applications - Functionality - Price positioning as entry platform in the SIMATIC IPC portfolio

Much more Power

- Single Core → Dual Core & Quad Core
- Max. 2 GB → Up to 8 GB RAM
- 32 bit → 64 bit architecture
- Latest interfaces → USB 3.0 / DP / CFast

Compact & Improved

- Only 1 liter volume
- COM switchable
- Multitouch for 15” & 19”
- Display-Port for Panel PC

Wider range of applications

- CPU 1505S – Software Controller
- B.Data – Energy Box
- WinCC Single Station / Client
- WinCC OA

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Rack PC SIMATIC IPC347D
Entry Level Rack PC

<table>
<thead>
<tr>
<th>Easy distribution</th>
<th>Reliable continuous operation</th>
<th>Packages</th>
<th>Service-friendly enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ 4 variations directly from the storehouse</td>
<td>▪ Industrial-standard design and repair services worldwide</td>
<td>▪ Simatic HMI packages for price-intensive applications in the low performance area (Client/Workstation)</td>
<td>▪ Front USB and externally accessible fan</td>
</tr>
<tr>
<td>▪ No configurator</td>
<td></td>
<td></td>
<td>▪ Easy expandability for RAM, HDD and PCI/PCle cards</td>
</tr>
</tbody>
</table>

Optimized price
Optimal positioning against the competition in the office segment

Easy distribution

- 4 variations directly from the storehouse
- No configurator

Reliable continuous operation

- Industrial-standard design and repair services worldwide

Packages

- Simatic HMI packages for price-intensive applications in the low performance area (Client/Workstation)

Service-friendly enclosure

- Front USB and externally accessible fan
- Easy expandability for RAM, HDD and PCI/PCle cards
## SIMATIC IPC347D

### Four Fixed Configurations – Available Ex Works

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Processor</th>
<th>RAM</th>
<th>Bulk memory</th>
<th>Optical drive</th>
<th>Operating system</th>
<th>Interfaces</th>
<th>Slots</th>
<th>Industrial standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Configuration 1</strong></td>
<td>Intel Pentium G2010</td>
<td>2 GByte DDR3</td>
<td></td>
<td>DVD-ROM</td>
<td>-</td>
<td>6x USB 2.0, 2x GBit Ethernet, 2x COM, 2x PS/2, 1x DVI-D, 1x VGA</td>
<td>3x PCIe, 4x PCI</td>
<td>19&quot; full-metal enclosure (4RU), positive pressure ventilation and dust protection filter, ambient temperature up to 40° C (in continuous operation without power loss)</td>
</tr>
<tr>
<td><strong>Configuration 2</strong></td>
<td>Intel Core i5-3340S</td>
<td>4 GByte DDR3</td>
<td></td>
<td>DVD±R/RW</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Configuration 3</strong></td>
<td></td>
<td></td>
<td>500 GByte SATA HDD</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Configuration 4</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Windows 7 Ultimate 64 bit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Decentralized operating concepts

SIMATIC ITC

Positive feedback
- Performance
- Remote configuration
- Display sizes up to 22”
- Usability

Ethernet Monitor IFP1900

- All Signals run over One Ethernet Cable
  Video, Touch and USB 2.0 over TCP/IP (1Gbit / s)
- Full Multitouch operation
- Supporting Windows 7 and Windows 8
  (as a virtual graphics adapter and USB – Server)
- Multiple monitor operation (up to 4)
- Monitor shows connection status to the PC
- No BIOS access or visible BIOS boot messages

Getting Started Videos
Getting Started Docu
Application Example
Industry Online Support

Ethernet monitor shows up as a regular monitor within the Windows device list or control panel.
S7-1500 Software Controller

Highlights

**Supported platforms**
- Windows 7 32 and 64 Bit
- Microbox IPC4x7D
- Box/Rack/Panel IPC6x7D/8x7D
  (IPC2x7E: 2. delivery stage)

**Ruggedness**
- Innovative real-time concept based on virtualization concepts
- 100% decoupling of Windows
- Reboot Windows – during ongoing control

**Usability**
- Display Application for easy operation
- Complete projecting with TIA-Portal

**Performance**
- Improved Code processing
- 64 Bit exploitation
- Fast run-up @ PC boot

**Compatibility and scalability**
- 100% Code compatible with S7-1500
- Motion & Trace

**Security**
- Improved copy and know-how protection
- Improved communication security

**ODK**
- Execution of real-time algorithms
- Invocation of Windows DLLs

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SIMATIC S7-1500 Software Controller
Flexible Compliance with Customer Requirements

Complex control tasks
- Realization of minimum cycle times
- Integration of complex algorithms
- High capacity of program and data memory

Integration of PC applications
- Direct integration of closed-loop controllers from model-based development
- Integration of (already existing) high-level language code

Multiple tasks on one device
- Realization of central and distributed operating concepts
- Reduced component variety and spare parts stocking
- Integration of third-party software (e.g. image processing)
SIMATIC ET 200SP Open Controller
The compact PC-based controller within the S7-1500 portfolio

**Independent of Windows**
Maximum controller availability even in case of Windows failure or during installation of updates

**Increased security**
Protection of intellectual property and manipulation protection

**Compact design**
Space savings in the control cabinet of over 30% in comparison to similar systems

**Efficient engineering**
Integrated engineering of controller and visualization in the TIA Portal

**PC and field bus interfaces onboard**
Easy connection to automation and IT networks
The SIMATIC ET 200SP Open Controller at a glance
Robust hardware with powerful software for innovative machines

**Hardware**

- Fanless design
- High temperature range (0°C to 60°C)
- Up to 4GB RAM
- All PC-interfaces onboard (DVI, USB, Gbit Ethernet)
- Exchangeable bus adaptor for PROFINET IRT
- Integrated Run-Stop-Switch for the controller

**Software**

- S7-1500 Software Controller pre-installed
- Optionally with installed visualization software WinCC
- Visualization also with multitouch functionality possible
- Optionally 32 Bit or 64 Bit WES 7 operating system
Overview of ET 200 portfolio

Control cabinet

SIMATIC S7-1500
CPU + S7-1500 I/O

SIMATIC ET 200MP
IM + S7-1500 I/O

Control box

SIMATIC ET 200SP

SIMATIC ET 200AL
IP67 Block IO on ET 200SP

SIMATIC ET 200PRO
IP67 modular

SIMATIC ET 200eco PN
IP67 stand alone block IO

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SIMATIC ET 200SP
Special modules (Available)

Fiber Optic BusAdapter (BA 2xSCRJ)
- Distance up to 250 meter between ET200SP stations.
- Supports cable types: POF, PCF, PCF GI.

AS-Interface Communication Modules (CM AS-i Master ST)
- AS-i slaves can be configured on AS-i subnet in TIA Portal.
- Analog slaves with access in I/O area (up to 288 bytes).

AS-Interface Failsafe Communication Modules (F-CM AS-I Safety ST)
- Must be combined with CM AS-i Master ST. Supports 31 safety inputs and 16 safety outputs.
- Similar configuration and programming as the F-DI and F-DQ.

Weighing Technology (SIWAREX WP321)
- Applications: Platform scales, silo and hopper weighing, weighing in explosive areas, and force measurements.
- Resolution accuracy of +/- 2 Million parts
New Modules

- ✓ DI, DQ, DI/DQ, AI, and AQ 25mm wide module (Slimmer)
- ✓ DQ 16x230VAC/2A ST 35mm (Relays)
- ✓ DQ 16x230VAC/1A ST 35mm (Triac)

Additional cabinet space saving with slimmer 25mm modules

F modules

- ✓ 16 F-DI
- ✓ 8 F-DQ 2A ppm

Delivery Release soon!
SIMATIC Distributed IO IP65 / 67
ET 200AL

The Rugged I/O for effortless mounting anywhere

Small and lightweight
(30/45 mm width, 145 gram)

Flexible assembly
Front and side screw connection

Perfect integration of IP65/67 modules in ET 200SP

Uniform engineering in the TIA Portal and STEP7 V5.5

M8 connection system for Digital module (M12: Analog and IO-Link)

Next releases: M12 for digital

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The Family of SIMATIC HMI Panels
Efficient to a new level
SIMATIC HMI 2nd Generation Basic Panels

- Nicely paired with S7-1200
- High-resolution, wide-screen display (64K colors)
- Uniform functionality throughout entire family
- Lead with 2nd Gen for simple applications
SIMATIC HMI 2nd Generation Mobile Panels (Wired)

- Comfort panel functionality
- Safety and non-safety models available
- Ideal for interaction with S7-1200 / S71500
SIMATIC HMI Comfort Panels
INOX

- Stainless Steel
- IP66 protection; Shatter protection
- Easy cleaning, ideal for hygienic areas
- Target Food & Beverage

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SIMATIC HMI Comfort Panels
Coming soon! - Outdoor Panels

Temperature range: 
-30°C to +60°C

Daylight readable; UV Protection

Target Oil & Gas, Marine, Cranes, etc.
SCALANCE W - 802.11n Wifi
New portfolio additions

Small form factor Wifi products open the door to new Entry-level and Mainstream business and round out 802.11n portfolio

Features

- Lower entry price
- Data rates of up to 150 or up to 300Mbit/s
- 2-port switch on W770/730 series
- KEY-Plug/C-Plug for iPCF support on W770/730 series
- Small footprint with Direct + Rail mounting

Customer benefits: Increased Flexibility and cost effectiveness

- Smaller footprint allows for use of 802.11n technology even in applications with size and space restrictions
- Design following the S7-1500 and ET200SP allows for easy integration into existing cabinets
SCALANCE XB200 – Entry Level Managed Switches

- Ethernet/IP certified
- Entry level pricing
- Up to 16x ports
- 8 different versions
- X300 SW features
- IGMP activated by default
SITOP PSU8600 Highlights

+ Integrated Ethernet/PROFINET communication for optimal integration
+ Modular extension without wiring effort
+ Integration in TIA Portal for optimized engineering & operation
+ Modular extension for buffering short term power failures
+ Selective monitoring of outputs
+ Extensive monitoring & diagnostics for preventative maintenance

Top reliability
Top efficiency
Top integration
Thank you!