PLC HARDWARE & SOFTWARE
• LOGO! Logic Module - now also with ethernet
• Modular Controllers SIMATIC S7: S7-200, S7-1200
  (ProfiBus DP slave with CM 1242-5 and DP master for up to
  16 DP slaves with CM 1243-5 communications module), S7-
  300 (more power, more memory with V3.3 CPUs), S7-400H
  fault-tolerant controller
• Embedded controllers
  - Embedded box PC bundles (IPC427C with pre installed
  Runtime Software)
  - Embedded panel PC bundles (IPC477C RTX, RTX F, HMI,
    HMI RTX, with WinCC 7.0 embedded)
• PC-based controllers
  - Win AC RTX, Win AC RTXF, Win AC ODK

DISTRIBUTED I/O-SIMATIC ET 200
• ET200 systems for control cabinets
  - ET200S, ET200M, ET200L, ET200ISP
• ET200 systems without control cabinets
  - ET200pro, ET200eco PN, ET200eco, ET200R
• Fail-safe signal modules for ET200S/ET200pro/
  ET200eco and ET200M
• Profibus components for ET200 system
  - RS 485-1S-coupler, Power Rail Booster,
    Diagnostics, profibus DP ASICS

HMI HARDWARE & SOFTWARE
• Operator control and monitoring systems
• Embedded box PC bundles with nano box PC (Power -
  Optimized by Intel Atom)
• Panel PC-systems and monitors (Panel PC, industrial
  monitors, embedded bundles and software packages)
• HMI devices for special requirements
  - Fully enclosed HMI devices
  - INOX devices
  - Devices for hazardous areas
• HMI software
  - HMI-Software inside TIA-Portal
  - HMI System WinCC flexible
  - SACDA System WinCC Open Architecture (OA)
  - Time Planning and Monitoring with the optional Event
    Notifier Function in WinCC V7

INDUSTRIAL ETHERNET SWITCHES/MEDIA CONVERTERS
• Scalance X-000 unmanaged, X100 unmanaged/Media
  converter, X-200 managed, X-200IRT, X-300 managed,
  X-400 managed/Layer 3

INDUSTRIAL SECURITY (Integration of the Cell
Protection Concept in SIMATIC S7 and PC)
• Scalance S security modules
• Softnet Security Client
DRIVE TECHNOLOGY

- Low-voltage converters
  - General performance converters Sinamics G
  - High performance converters Sinamics S
  - Frequency inverters MICROMASTER
  - Converter for Simatic ET-200 I/O station
- DC Converters (SINAMICS DCM)
- DT (Drives Technology) Configurator (Application-Related Selection of Converters)
- Engineering and Commissioning Software
  - Design Tool SINAMICS MICROMASTER SIZER
  - Commissioning Tool STARTER
  - Engineering Tool Drive ES
  - CAD CREATOR (Dimension Drawings, 2D/3D CAD data)

MOTION CONTROL SYSTEM SIMOTION

- SIMOTION D drive-based hardware platforms
- Software
  - Runtime software (SIMOTION kernel, SIMOTION function library, technology packages)
  - Engineering software (SIMOTION SCOUT, STARTER)
  - SIMOTION IT DIAG
- Motion Control Solutions for Industry (Converting, Cranes and Hoists, General Motion Control, Packaging, Plastics, Printing, Glass and Metal-Forming)

INDUSTRIAL WIRELESS COMMUNICATION

- Industrial Wireless Telecontrol (GSM modems/UMTS Modules, accessories, software)
- Industrial Wireless LAN (Scalance W-780 access points, W-740 client modules, wireless devices, IWLan RCoax cable, IWLan/ PB link PN I/O, accessories for IWLan, software)
- Wireless HART (SITRANS TF280, P280, AW200, MDS, IE/ WSN-PA Link)

SAFETY INTEGRATED FOR FACTORY AUTOMATION (New Safety Integrated Function in SINAMICS with Software V4.4 with the SDI (Safe Direction) Function)

- Drive technology
  - SINAMICS G120 Standard, G120C Built-in Units, G120D Distributed Inverter
  - SINAMICS G130 chassis units
  - SINAMICS G150 cabinet units
  - SINAMICS S110 basic servo drive
  - SINAMICS S120 built-in devices
  - SINAMICS S120 cabinet modules
  - ET200S Frequency Converters, ET200pro Frequency Converters
- Automation system
  - SIMATIC safety integrated
  - SIMOTION with safety integrated
- Fail-safe communication
  - Profinet, profibus, AS interface, industrial wireless communication
SIRIUS INNOVATIONS - THE NEXT GENERATION OF SIEMENS IEC POWER CONTROL

- 3RV2 - motor starter protectors
- 3RT2 - 3 pole contactors
- 3RT23 - 4 pole contactors for resistive loads
- 3RH - contactor relays
- 3RB2 electronic overload relay for IO-link with operator panel
- 3RB3 - solid-state overload relays
- 3RA2 - preassembled motor starters
- 3RA6 - compact starters
- 3RR - current monitoring relays
- 3RU2 - thermal overload relays
- 3RF - solid state contactors
- Maximum current carrying capacity of 100A

PROCESS CONTROL SYSTEM

- Simatic PCS7
  - System components (Engineering System, Operator System, Maintenance Station, Automation System, Communication, Distributed Peripherals)
  - Technology components (Batch automation, Route control, PCS7 with Safety Integrated, Advance Process Control, IT Security, Connection IT systems)
  - Compact systems (SIMATIC PCS7 Box)
  - SIMATIC PCS7 Add-ons (Libraries/blocks/tools, Simulation, Diagnostics, Laboratory automation, Energy Management, etc.)

SERVO MOTORS

- 1FK7 servo motors (Synchronous motors with solid shaft)
  - Compact (CT)
  - High Dynamic (HD)
  - High Inertia (HI)
- 1FT6 (Universal motor for medium power precise applications with natural cooling, forced ventilation and water cooling)
- 1FT7 (Compact Synchronous motors for high-performance applications)
- 1PH7 (Induction motors with solid shaft)
- 1PH8 servo motors (Induction motors with solid and hollow shaft. Available as asynchronous and synchronous versions)
  - Compact (CT)
  - High Dynamic (HD)
  - High Inertia (HI)

PROCESS INSTRUMENTATION

- Temperature transmitters
- Flow transmitters
- Level measurements-milltronics
  - Point level
  - Radar level, LR209, LR250, LR260, LR400
  - Capacitance level LC300, LC500
  - Ultrasonic level, probe LU, HydroRanger 200, MultiRanger 100/200
- Echomax XPS transducers
SITOP POWER SUPPLIES

- Signaling modules
- Buffer module
- Redundancy module
- DC UPS module
- Electronic diagnosis module
- LOGO! Power Supplies
- Modular 24VDC (1-phase and 2-phase, 5A and 10A/3-phase, 20A and 40A)
- Slim-Line (2.5A, 5A and 10A, 48VDC/10A 1-phase, 24VDC/3-phase)
- Other DC Output voltages: 3-phase in 48VDC, +/- 15VDC, 3.5A, 120-Watt can be adjusted between 3-52VDC

CONTROL POWER TRANSFORMERS

- Line & load reactors
- Commercial encapsulated distribution transformers
- Buck-boost transformers
- Drive isolation transformers

SIGNALING COLUMNS & BEACONS

- Pushbutton units and indicator lights
- Two-hand operation consoles
- Cable-operated switches
- Foot switches
- Signaling columns (50mm and 70mm diameter options)
- Integrated signal lamps

TERMINAL BLOCKS & ACCESSORIES

- Screw connection system
- Double-level terminal blocks
- Test-disconnect terminal
- Fuse-disconnect terminals
- Three-wire installation terminals
- Marking system

LOW-VOLTAGE FUSES AND FUSE HOLDERS, POWER DISTRIBUTION BLOCKS, MINIATURE CIRCUIT BREAKERS, TIMING RELAYS, INTERFACE CONVERTERS
SIMATIC ET 200S HF MOTOR STARTERS WITH PROFINET

- A large volume of diagnostic data for device, plant, and process monitoring thanks to acyclic services
- Greatly reduced energy consumption due to ProfiEnergy capability
- Functions: three logbooks for device errors, triggering of the starter and events that carry a time stamp; statistical data; device diagnosis; installation and maintenance functions

POWER DISTRIBUTION

- Motor Control Centers
- Medium Voltage Switchgear
- ACCESS/Power Monitoring
- Transformers

GATEWAY SOLUTIONS

- Anybus X-gateway (Network to network gateways. Over 250 versions. Master/Slave versions included)
- Anybus X-gateway CANopen (CANopen to 10 other networks. Full CANopen Master supported)
- Anybus X-gateway Modbus TCP (Modbus-TCP Master to other networks. SD Card with easy module replacement)
- Customized gateway solutions (1SI CANopen - for Siemens ET200S. Modbus RTU to TCP gateway. Serial Server to create up to 16 virtual COM ports)
- Netbiter Remote Management

LOW-VOLTAGE POWER DISTRIBUTION

- Protection devices (molded case circuit breakers)
- Control & switch disconnectors
- Soft starters
- IEC contactors & starters
- IEC motor starter protectors
- Disconnectors
- Thermal overload relays
- 3RA6 COMPACT STARTER (CIRCUIT BREAKER/MSP + CONTACTOR + SOLID-STATE OVERLOAD RELAY + Accessories such as AUX Switch for MSP, AUX Switch for Contactor, Surge suppressor, Connection Module)

SIMOCODE pro 3UF7 MOTOR MANAGEMENT AND CONTROL DEVICES

- New modules for safe switch-off
- Basic Units
- Expansion Modules
- Software
  - SIMOCODE ES
  - SIMOCODE pro Block Library for SIMATIC PCS7
  - eAssistance Tools (Configurator SIMOCODE 3UF)

CODE - READING SYSTEMS

- SIMATIC MV440 UR (Ultra high resolution, 1,600 x 1,200 pixels)
- SIMATIC MV420 and MV440 Stationery 1-D/2-D code reading systems
- Now also have PoE (Power over Ethernet functionality)
OFFERING...

- Distributed I/O and Industrial Communications Networks
- Low-Voltage Controls and Distribution
- Power Distribution and Metering
- Human Machine Interface Hardware and Software
- Process Automation
- Safety Products

- AC Converters (MICROMASTER, SINAMICS)
- Low-Voltage, Synchronous and Asynchronous Servomotors
- Automation Systems (PLCs)
- Electric and MRO
- Process Instruments
- Sensors

PARTIAL LISTING OF OUR SUPPLIERS

SIEMENS
Edwards Signaling & Security Systems
MTE
Woodhead
ProSoft
HellermannTyton
Ferraz Shawmut
Hammond Power Solutions Inc.
HMS
IDEC

YOUR SALES ENGINEER

YOUR TECHNICAL SUPPORT