

Industry Sector Industry Automation Division

Nuremberg (Germany), January 23, 2012

Siemens expands Industrial Ethernet portfolio with fault-tolerant redundancy solution

The Siemens Industry Automation Division has expanded its portfolio of industrial network products with a fault-tolerant system solution for smooth and thus delay-free redundancy in Industrial Ethernet networks. The new Scalance X-200RNA (Redundant Network Access) network access points have been designed for all applications and sectors in which a network connection with particularly high fault tolerance is required. In addition to the Scalance hardware, Siemens also offers the Softnet-IE RNA software package with which PCs can be connected to parallel networks.

The Siemens Industry Automation Division offers a redundant solution based on the Parallel Redundancy Protocol (PRP) in accordance with the IEC 62439-3 standard. The X-200RNA Scalance access points connect one or two network segments or data terminals without PRP functionality over two parallel networks without delay. An access point duplicates the transmitter's message frame and feeds a copy into each of the connected networks. The two LANs can have different structures – star, ring or tree. At the receiver end, the second access point passes on the first message frame which arrives to the addressees. The message frame which arrives subsequently from the other LAN is discarded. The two separate networks and the PRP procedure guarantee secure and punctual transmission. A reconfiguration time as required by other redundancy procedures using only one physical network is therefore superfluous. Typical areas of application for fault-tolerant redundant connections can be found in the energy sector as well as in process automation, for example in the pharmaceutical or chemical industries.

Siemens offers the new access points as Scalance X204RNA in a plastic enclosure with four electric RJ45 ports as well as Scalance X204RNA EEC (Enhanced Environmental Conditions) in a metal enclosure with two electric ports and two electric/optical combined ports for SFP (Small Form-Factor Pluggable) transceivers and wide-range power supplies. Various information for network diagnostics is available via SNMP (Simple Network Management Protocol).

The Softnet-IE RNA software package can be used for linking PCs at low cost into redundant, parallel network topologies based on PRP without additional programming overheads. Using the Siemens software, a computer can establish the same smooth redundancy connection over two LAN networks as the Scalance X-200RNA network access points.

You can find more information on the Internet at: www.siemens.com/rna

You will find the text on the Internet at:

www.siemens.com/press/industryautomation/pressreleases



The Siemens Industry Automation Division has expanded its portfolio of industrial network products with Scalance X-200RNA, a fault-tolerant system solution for smooth redundancy in Industrial Ethernet networks.

You can find this photo on the Internet at www.siemens.com/ia-picture/2905

Please phone us if you require a copy of the photo.

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