

WHITE PAPER

Industrial Ethernet Communication Protocols

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Executive Summary

Industrial communications like all technologies, have undergone significant changes. Industry has also utilized the technology that served the contemporary needs of the marketplace. Higher speeds and greater facilitate new, more sophisticated slave devices, end-node equipment, together with new applications. As a equipment has been transitioning to faster, deterministic Ethernet-based technology and communications p

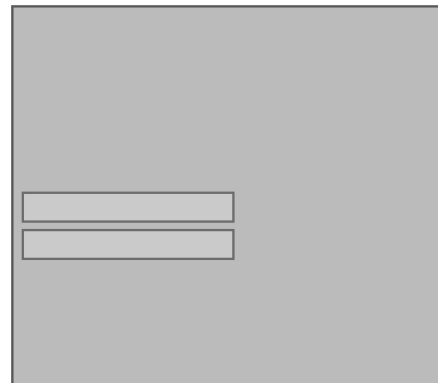
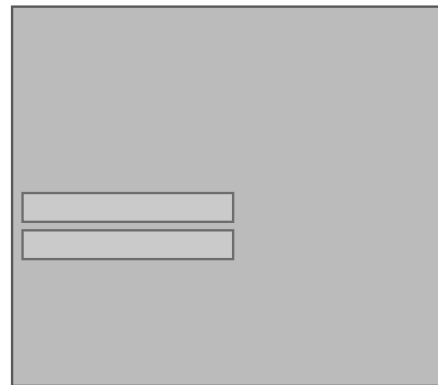
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SERCOS III

Sercos III is the third generation of Serial Real-time Communication System (Sercos). It combines ring-the-real-time Ethernet with standard TCP/IP communication to deliver low latency industrial Ethernet. Much like processes the packet by extracting and inserting data to the Ethernet frame on-the-fly to achieve low latency output data into two frames. With cycle times from 31.25 microseconds, the speed rivals that of Profinet CAT a ring or line topology. Sercos III is limited to 511 slave nodes in one network and is most used in servo drive

CC-Link IE

CC-Link IE is the industrial Ethernet technology of CC-Link, which was originally developed by the Mitsubishi

