

lamaPLC Communication: Sinec H1

Sinec H1 is an [Industrial Ethernet](#) communications protocol that provides the transport layer function widely used in automation and process control applications. The protocol was developed by *Siemens* and is used mainly for control applications. It has large bandwidth and is well suited to the transmission of large volumes of data.

It is based on the ISO/IEC 8073 standard which defines different transport methods. Sinec-H1 applies class 4 (CONS or Connection Mode Network Service).

This protocol has no application layer, which is defined in a project or product-specific way. The application layer protocols XMAT and Simadyn-D need to be mentioned in this context.

It is used as part of the control infrastructure of CERN and LHC.

Sinec H1 was introduced with Siemens' Simatic-S5 series. Sinec H1 was replaced by [Profibus](#) as “*basic communication*” at Siemens, when the Simatic-S7 PLC family was introduced.



Sources

Wikipedia ([here](#))

[SIMATIC TI505 / SINEC H1 Communication Processor \(PDF\)](#)

Sinec H1 topics on lamaPLC

[communication](#), [bus](#), [fieldbus](#), [Sinec-H1](#), [S5](#), [S7](#), [Simatic](#), [Siemens](#), [Industrial Ethernet](#), [IE](#), [IEC 8073](#)

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