INDEL

Indelligent Automation
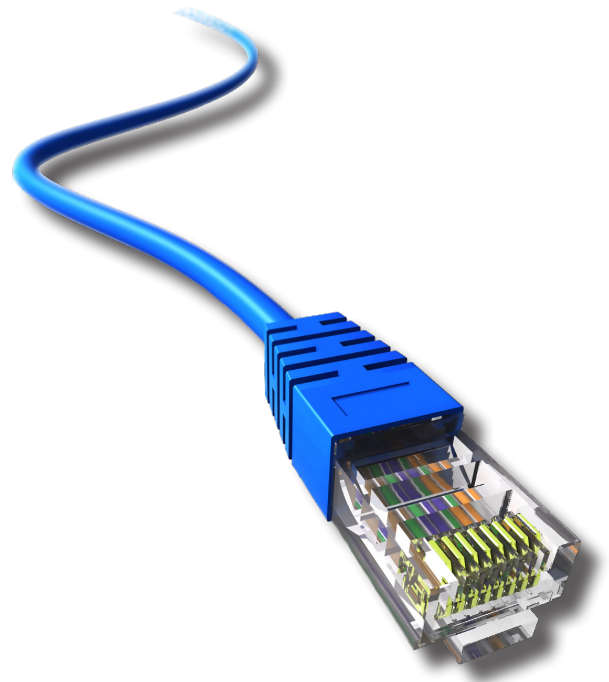
GinLink

Gigabit Ethernet Fieldbus

➡ 1 GBit/s transfer rate

➡ Cycle times from 7.8125 µs

➡ Absolutely synchronous data transfer

Facts	
Transfer rate	1 GBit/s
Cycle times	Configurable from 7.8125 µs to 1 ms
Number of slaves	Max. 2048
Topology	Ring or line
Distance	100 m per bus segment
Latency	Minimum achievable latency of 1.1 µs
Jitter	16 ns per slave
Hot-pluggable	Line topology allows adding and removing of slaves
Robustness	Proven standard Ethernet components
Protocol	Gin-Frame over UDP (64'000 Full-size Ethernet-Frames/s)
Deterministic	FPGA-driven data transfer, independent of CPU
Data processing on-the-fly	Data processing simultaneous with data transfer

The GinLink fieldbus is setting new standards in automation with a transfer rate of 1 GBit/s. The high fieldbus speed of the GinLink opens new approaches in control systems.

Data is transmitted CPU-independently by the FPGAs guaranteeing lowest latencies and highest degree of synchronicity between master and slaves.

GinLink is based on proven Gigabit Ethernet technologies. Usage of standard industrial components lowers costs and guarantees maximum availability.