ComFacts

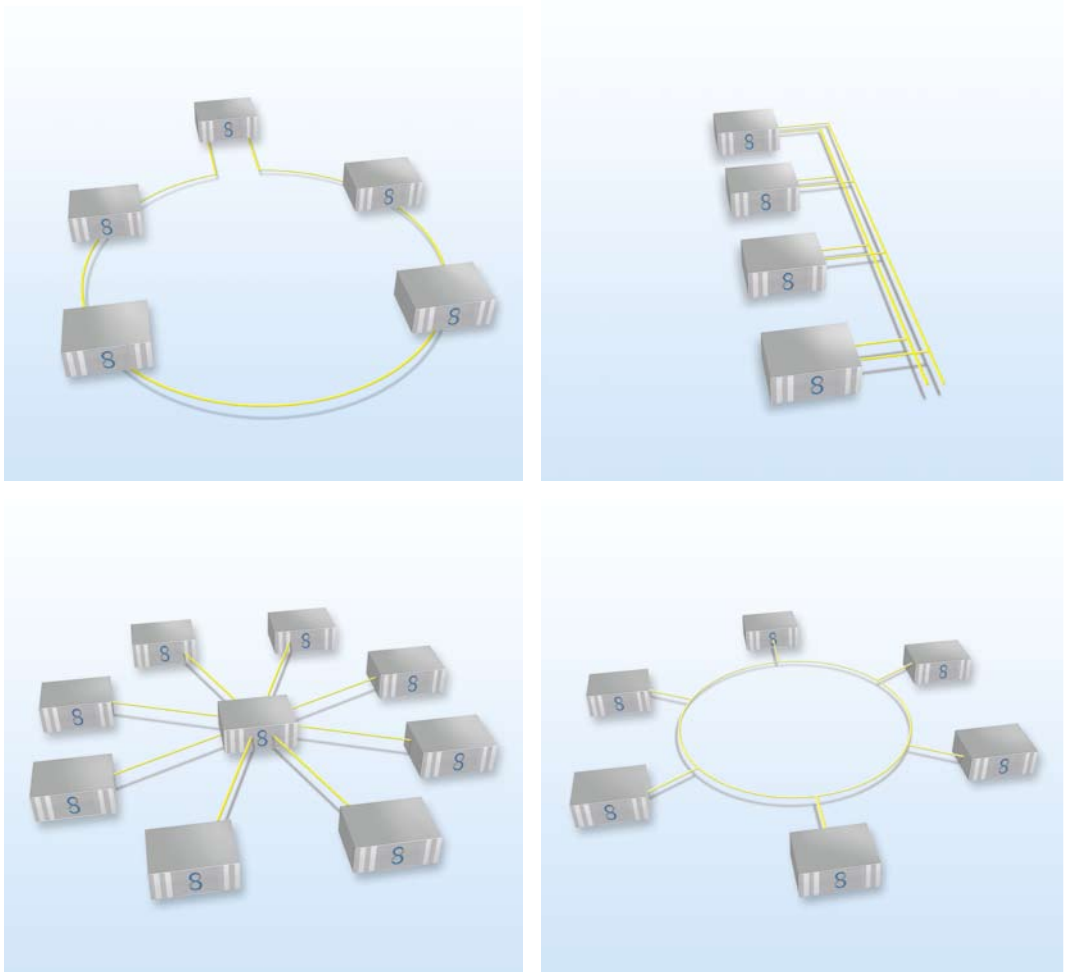
safe**ethernet**

Features

- TÜV-certified up to SIL 3
- Data transmission at 1 GBit/s
- Fast response times, even for networked applications
- No limitations on physical separation
- Utilises standard Ethernet components and functions for safety-critical applications
- Use of any transmission media
- Networking of up to 255 systems on each Ethernet segment
- Intelligent, diverse redundancy concepts
- Fully compatible with industrial use

Benefits

- Integrates safety-related and non-safety-related data in one standard Ethernet network – without compromising safety
- Can be integrated into existing Ethernet networks
- Utilises cost-efficient standard Ethernet components made by any manufacturer
- Redundancy concepts assure uninterrupted system operation, even if one communications route fails
- Quick, step-by-step commissioning
- Network participants can access each another, enabling centralised programming, diagnosis and visualisation
- Economical remote diagnostic and maintenance concepts



Enables a range of different network topologies = PES or RIO = safe**ethernet**

safe**ethernet**

Solutions for decentralised/distributed SIL 3 applications

To create applications requiring networked safety systems, HIMA developed safe**ethernet** as early as 10 years ago. safe**ethernet** is based on standard Ethernet technology (IEEE 802.3) and enables easy and efficient networking of HIMA safety systems in the widest range of industrial and application fields. Safety-related data transmission can thus be easily integrated into already existing Ethernet networks via all common types of transmission media.

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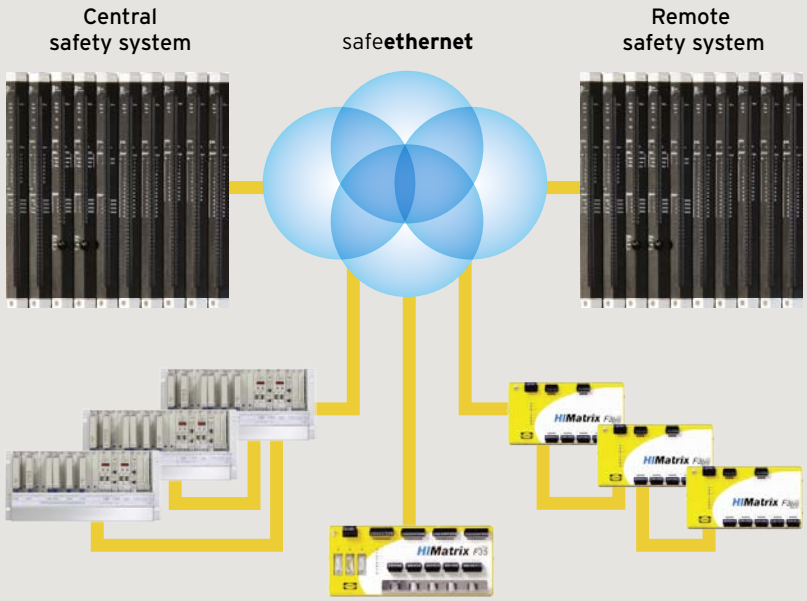
High flexibility and transparency

Ethernet network technology can be flexibly adapted to any application. It facilitates planning, start-up, maintenance and extensions.

Each station within the network has access to every other station. This allows centralised programming, diagnosis and visualisation.



Communication mediums

All currently available mediums can be freely used

- Copper
- ISDN
- SHDSL
- Fibre optic
- Satellite
- WLAN

Typical applications

Process safety
- Pipelines
- Distributed pharmaceuticals applications
- BMS solutions for single and multiple burner systems
- Decentralised Fire & Gas-systems
- Turbine monitoring
- Wellhead control
- Subsea applications

Building safety
- Fire alarms
- Smoke removal
- Escape-route signaling
- Smoke detection

Machine safety
- Punching and presses
- Painting systems
- Assembly systems
- Robot cells
- Conveyors
- Amusement rides
- Lifts and elevators
- Locks and polders
- Cableways
- Cranes
- Packaging machines
- Lifters and lift tables

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www.hima.com I info@hima.com