



## COMbricks for Redundant PROFIBUS Networks

**COMbricks**



Redundancy with COMbricks





## Redundancy Benefits

- **When do we need to use redundant Networks?**
  - When processing valuable materials
  - When downtimes or production failures would be expensive
  - When a control system failure would result in high restart costs
  - In order to enable operation without supervisory or maintenance personnel





## Redundancy with MASTER/STANDBY PLC Principle

- With this method we need S7-400 H system (as Siemens)
- High cost
- Needs configuration



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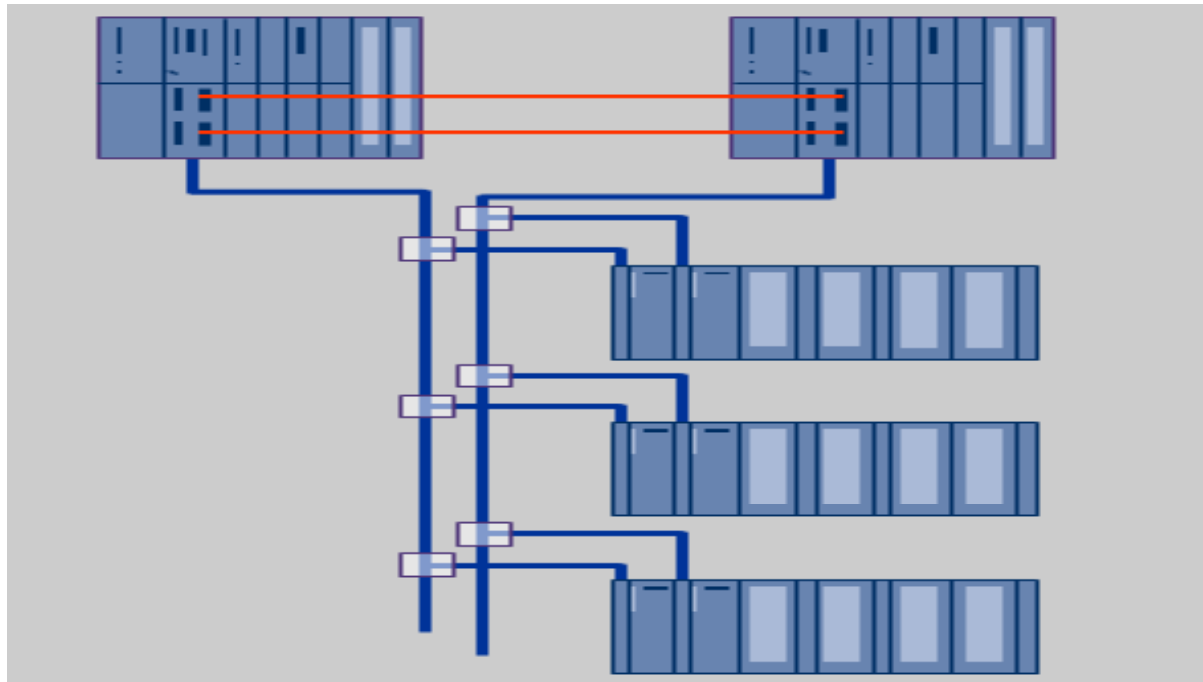
## Redundancy with COMbricks





## PROFIBUS Network Structure with H-Systems

- Example of redundancy with H-system



Redundancy with COMbricks





## Redundancy with COMbricks

- COMbricks - can easily make redundant Profibus network on Single CPU principle
- Any PLC can be used based on PROFIBUS
- Different structure options
- No configuration required



**Redundancy with COMbricks**

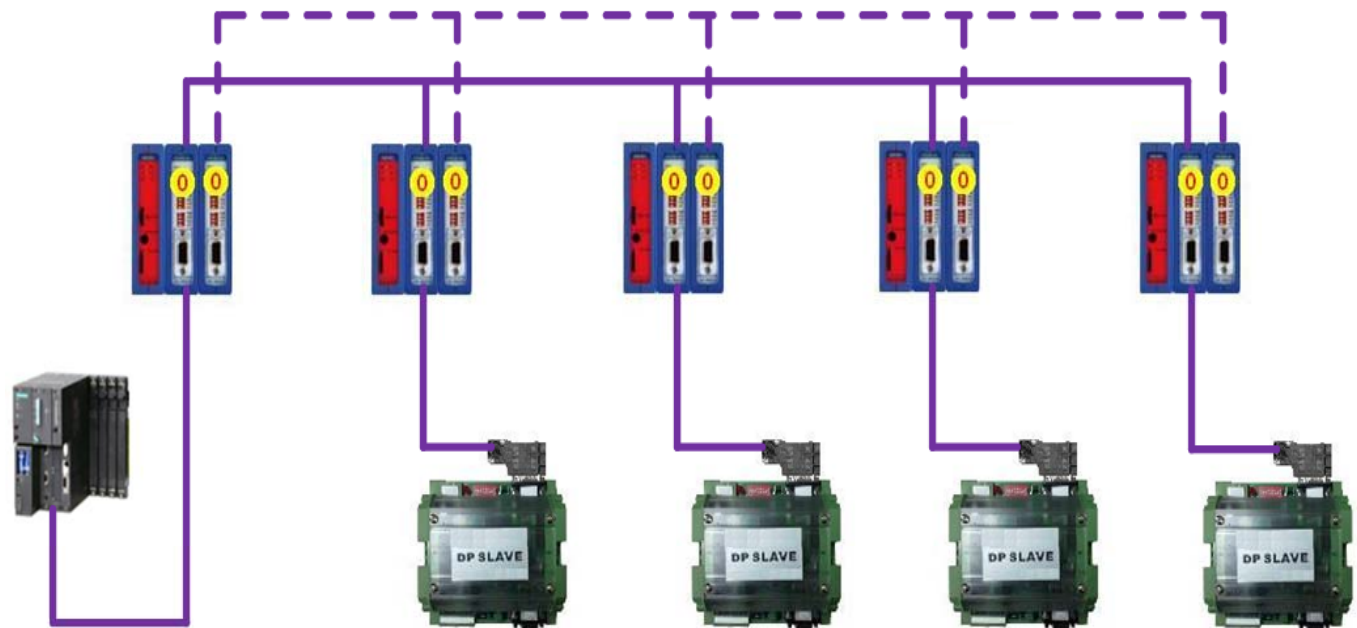




# PROFIBUS Network Structure with COMbricks

## OPTION 1 (Simple):

- Only One Network is created in the redundant backbone.
- The length of the network is fixed according to the baudrate.



## Redundancy with COMbricks

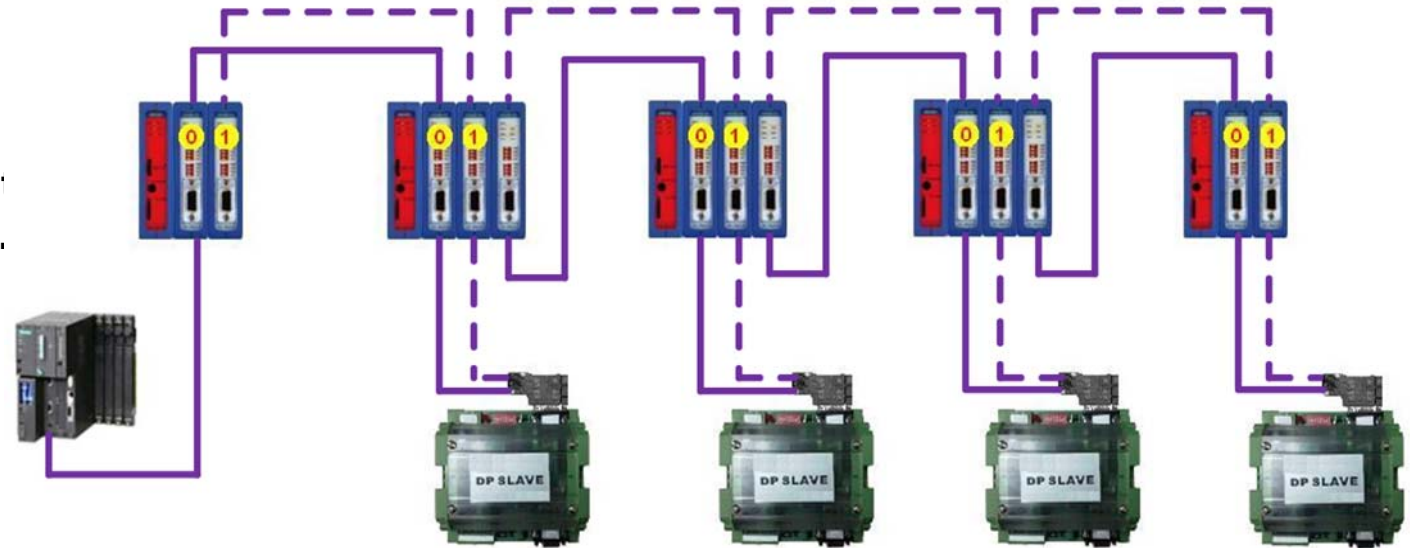




# PROFIBUS Network Structure with COMbricks

## OPTION 2 (Complex):

- Between each COMbricks system a redundant segment is created. The slaves are connected to network 0 and network 1
- The length of the cables depends on the baudrate and the amount of redundant segments.



## Redundancy with COMbricks





## For More Info..

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## Redundancy with COMbricks

