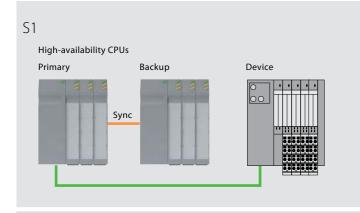
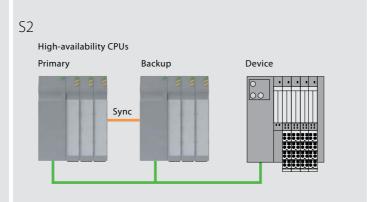


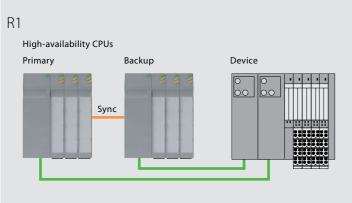
PROFINET System Redundancy

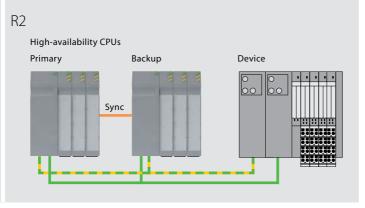












Describes the normal Profinet communication without redundancy.

Describes the physical redundancy on the level of the controllers and field devices.

This is the most frequently used form of system redundancy. It describes the physical redundancy on the controller level and a logical redundancy on the level of the field devices through communication relations to the primary controller and backup controller.

This is the most complex form of system redundancy. It describes both the logical as well as the physical redundancy on the controller level and field device level.

> Over 30 subsidiaries and 60 representatives worldwide!



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PROFINET System Redundancy and IO-Link

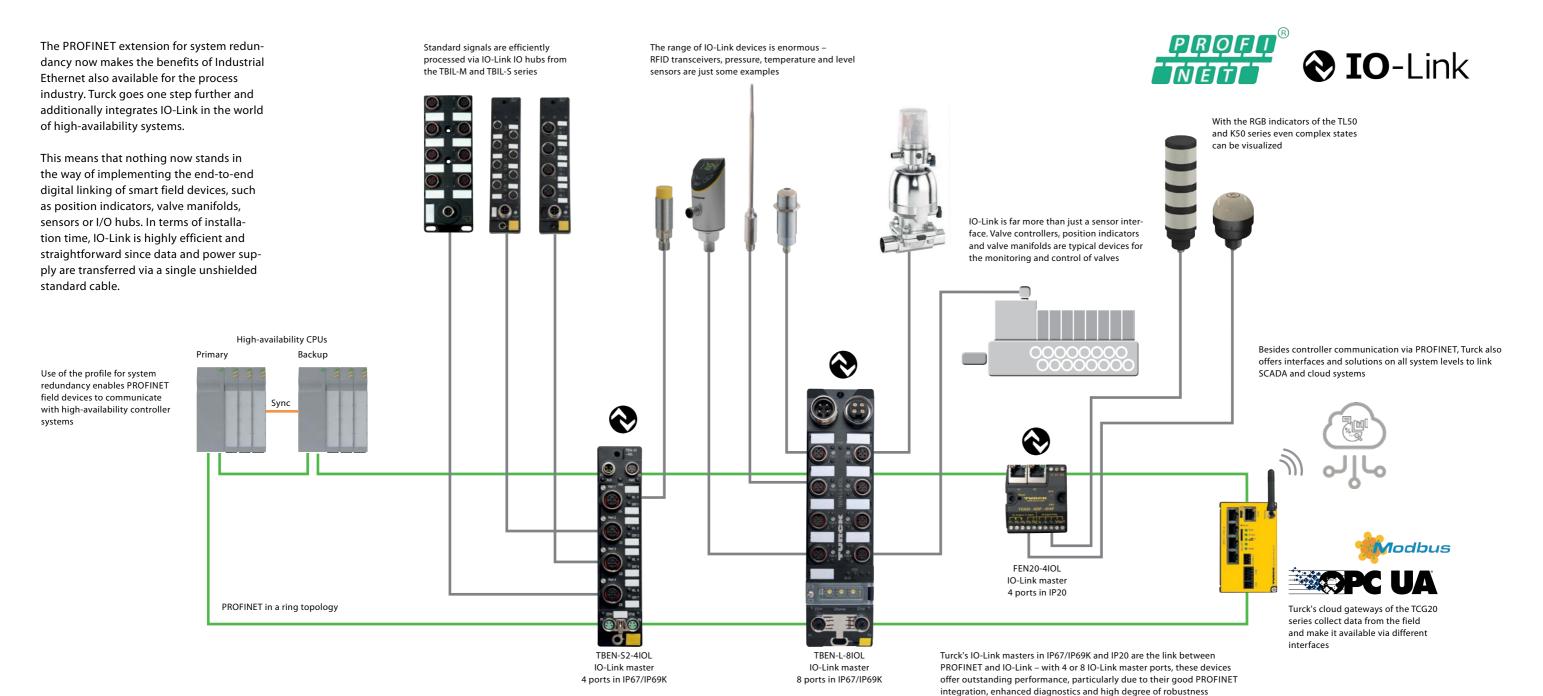


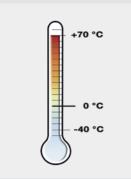




High-Availability – PROFINET System Redundancy and IO-Link

Measuring, controlling, monitoring, indicating – the digital way





Harsh environmental conditions Besides the fully potted module electronics, the extended temperature range from -40...+70 °C, as well as the high protection classes IP65, IP67 and IP69K, help to create the robust overall concept. This increases the range of possible applications in industrial environments.



Simple configuration with SIDI

Simple IO-Link Device Integration enables IO-Link devices to be configured directly from the engineering tool, such as the TIA Portal, PCS7 or CODESYS. At system start the parameterization is carried out automatically. This saves time and enables IO-Link masters and devices to be exchanged without the need for a configuration.



Conformance Class B PA

Turck's field devices stand out on account of their exceptional integration in PROFINET. Besides the S2 system redundancy, the devices support topology detection, media redundancy (MRP) and netload class 3. This enables a configuration-free exchange of devices and ensures reliable operation in ring topologies.



Monitoring API

All Turck modules with Industrial Ethernet support read access to device data in parallel with the PROFINET communication. SCADA, control or cloud systems can query device data from the field without increasing the load on the controller. Condition monitoring and asset management can thus be implemented without any obstacles.