

DIRECT REDUNDANCY SHIELD FOR FAILSAFE SYSTEM ACCESS

With the DirectRedundancyShield (DRS) you can protect your KVM installation by implementing a redundant KVM-over-IP™ matrix system that takes over instantly if the first system fails or cannot be accessed. Once the DRS function has been configured, each workstation and each computer module establishes two permanent connections to the active and the passive KVM-over-IP™ matrix via the network, only using one transmission line. If the primary connection is broken, the previously passive connection takes over automatically and directly. The transition is seamless, without any delay in the image transmission.

Mode of operation

To enable employees to work in control room environments reliably and securely under all circumstances, implementing redundant systems is essential. Therefore backup solutions are used that can be operated as a substitute system even in the event of a failure or a malfunction in the main system in order to ensure uninterrupted control and monitoring of critical processes.

In matrix environments, a system is made up of various components which can each have a redundant design to provide protection. In order to protect the entire system from failure in the case of complex KVM-over-IP™ installations, an additional matrix central module can be added that can take over in the event of main system failure. To prevent the user from having to wait for a connection to the backup system to be established if a fault occurs, the DirectRedundancyShield feature can be activated.

This extension is used to establish permanent encrypted connections between the KVM-over-IP™ end devices and the two central modules to enable seamless transition. If the active matrix central module is no longer available, a connection is established automatically and directly to what was, up until now, the passive system. The switching states are retained and the user is only made aware that the transition has been made by a momentary display at the edge of the screen. The process of changing to the redundant central module does not involve any visual interruption for the user – even critical DP1.2 monitors do not display any 'blinking'. This enables continuous process monitoring and control.

The DRS feature provides failsafe access and protection from a central module malfunction. With the optional transmission redundancy for workstation (CON) and computer modules (CPU), it is also possible to implement a redundant design for the connection to access switches or the general connection to the network.

Set-up and compatibility

The DirectRedundancyShield feature needs to be activated for both matrix central modules and supported by the end devices. The feature is compatible with all G&D modules that use KVM-over-IP™ for transmission. A wizard is provided in the configuration interface for set-up, which guides you through the individual steps. It is recommended to complete the entire system configuration in the main matrix system before the DRS is activated, as the database state (system-wide settings such as configuration of end devices and user rights) is transmitted once only at this point in time. Any changes made to the configuration parameters later on can be synchronised manually using a wizard and transmitted again.

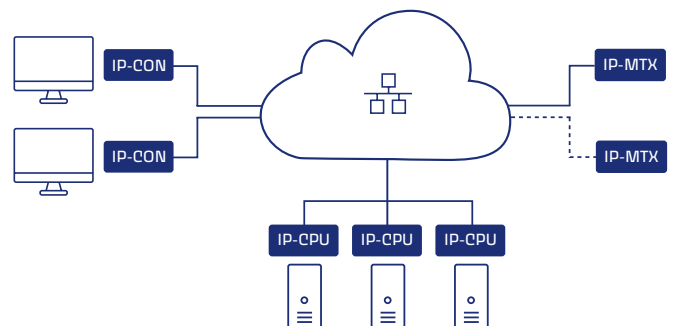


fig.: exemplary application drawing

HIGHLIGHTS

- For providing protection against failure in KVM-over-IP™ environments
- Automatic transition from active to passive connection in fractions of a second enables work without any interruption at all
- Straightforward set-up in the configuration interface
- Redundant connection to two matrix central modules via one connection
- DRS status available as a monitoring value

ARTICLE OVERVIEW

Art.-No.	Name
A8200055	DirectRedundancyShield Feature ControlCenter-IP