Room Control Isolator
RCI

Features

Control Isolation
Provides the ability to send commands from an AV control system to a video CODEC via RS-232 while restricting the information that flows back

Design Approach
Built with two independent circuits each with its own dedicated processor and power supply

Cost Effective
Mitigates security risks without modifying standard AV system designs

Secure
Utilizes optical and relay air gap isolation between the two circuits that are connected to each component

Manufacturer Neutral
The RCI is manufacturer neutral and it can be used with any type of AV control system

Status Indicators
Command Accepted/ Ok
Error/Fail
Call Up
Incoming Call/Ring
Reboot/Reset/Power-Up
Custom

Product Specifications
Physical Characteristics – .25 RU
Electrical – 10W
Environmental – 34 BTU/hr
Warranty – 1 Year Parts & Labor
Made in the U.S.A.

The Freeport Technologies Room Control Isolator prevents the AV control processor and any connected devices from permanently inheriting the security classification of the network that the video CODEC is connected to.

Freeport has developed a hardware device that was specifically designed to effectively mitigate security risks associated with using an AV control system to manage a video CODEC in a multi-domain environment. The RCI provides the means to program and control a CODEC without the risk of accessing or exposing any data that might be contained in that CODEC or on the network to which it is connected.

When the AV control system has unrestricted bi-directional access to the network through which a video CODEC is connected, it has the ability to draw data from that connected network and store it. Mitigating these risks can be accomplished by isolating the connection between the AV control processor and any system components that will be connected to active networks.

The RCI utilizes a two-way serial communication path with the CODEC but only a one-way serial communication path, plus status, back to the AV room control system. The RCI provides optical and relay air gap isolation between the room control side of the isolator and the CODEC side of the isolator. It is built as two independent circuits, one circuit communicates with the AV room control processor and the other circuit communicates with the CODEC.

The RCI would benefit any agency or organization that has multi-domain AV VTC systems deployed with multiple CODECs connected to a single AV control processor. The RCI also provides the ability to securely deploy an AV management network in a facility with various production network domains. It is a cost-effective solution that addresses security issues in new and existing systems without requiring significant or costly changes to those systems.