# SoundSentry™
# SECURE MEETING ROOM SOLUTIONS

A comprehensive solution for effectively conducting sensitive meetings without the risks of eavesdropping and data breaches, using the same equipment for both classified and unclassified meetings.

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# MEETING ROOMS

## Meeting room key features

- **Connectivity**
  - Connects various devices and networks for seamless information sharing.
  - Accommodates multiple personal devices brought by participants.

- **Collaboration**

  Supports collaboration among local and remote attendees.

- **AV technology**

  Includes display screens, Video bars, KVM switches, and remote controls with internal clients and open interfaces.

- **Room types**

  Applicable to all types of meeting rooms, including executive offices, board rooms, huddle spaces, and conference rooms.

# WHAT IS A **SECURE MEETING ROOM?**

A **secure** meeting room is a space where meetings at different classifications are being held either at the same time or different times.

There is a need to present and share information of different classifications with the attendees either local or remote.

# MEETING ROOM VULNERABILITIES

**The convergence of networks, computers, devices, and people introduces critical risks:**

- **Data Leaks and Breaches** - Information may flow between classified networks to guest devices or unsecured networks.

- **Eavesdropping** - Classified conversations may be intercepted, recorded, and transmitted to external parties.

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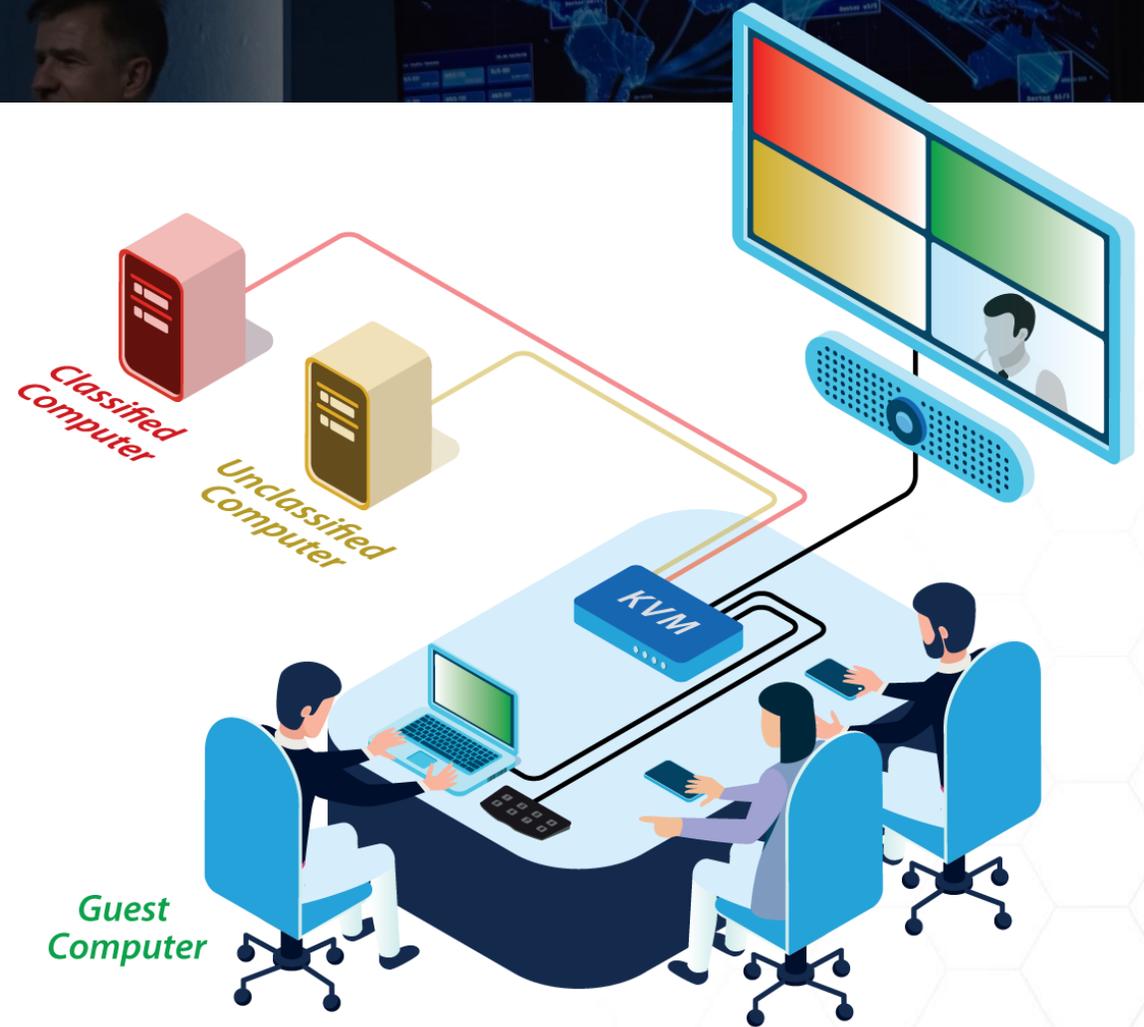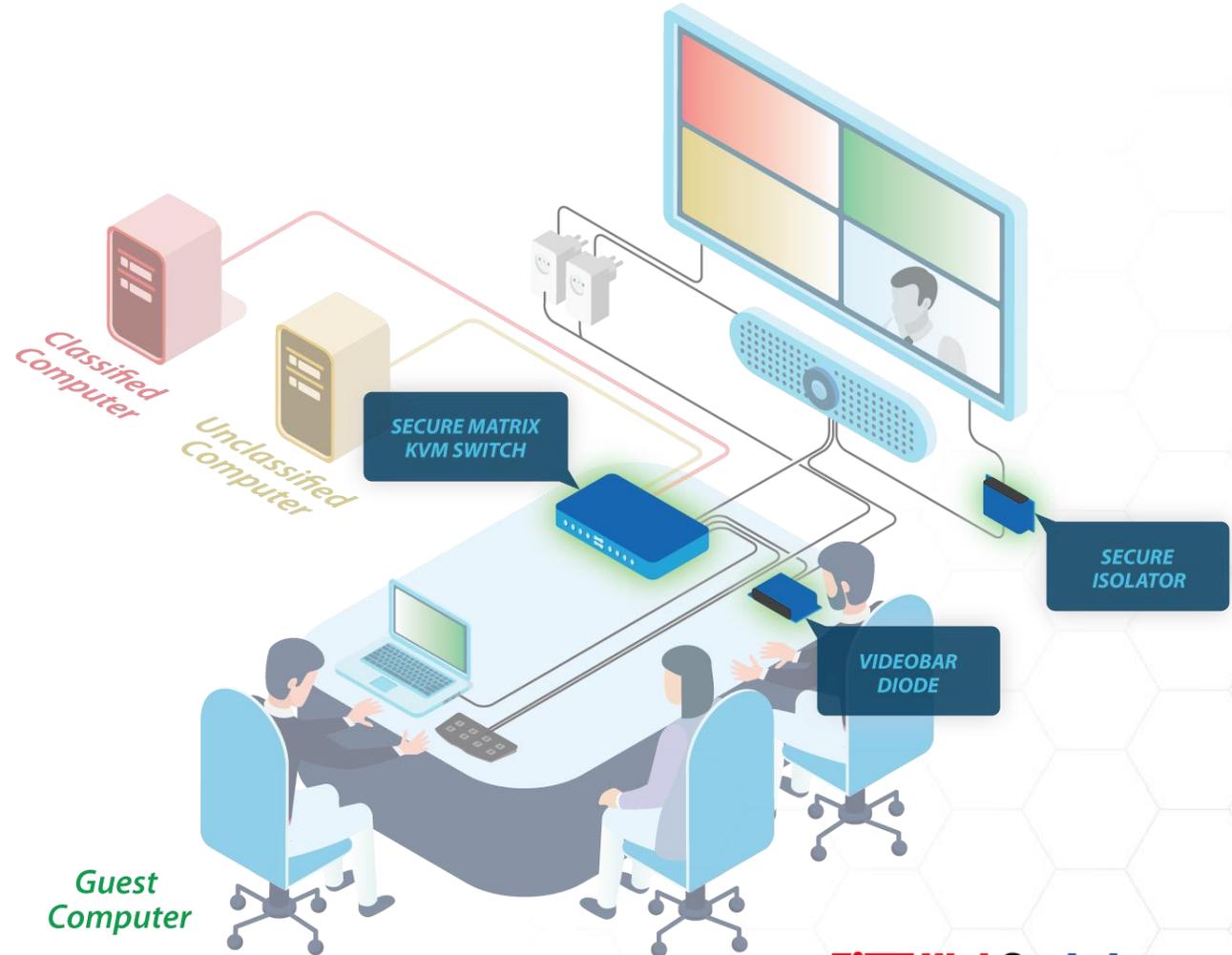
# THE SOUNDSENTRY™ SOLUTION

The **SoundSentry** family is a comprehensive solution for conducting classified and unclassified meetings using the **same room and equipment**, with no risk of data leakage.

It is the world's only solution **specifically designed** to protect classified & sensitive information.

The **SoundSentry** solution is **TAA** and **BAA** compliant and uses NIAP certified components and technologies.

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# PREVENT DATA BREACHES

- **NIAP PP4.0 Certified KVM Switches**
    - Prevent data leakage between connected computers
    - Block unauthorized USB devices

- **Video Isolators and Videobar Diodes**
    - Strict unidirectional data transfer prevents leaks through shared media peripherals



Classified Computer

Unclassified Computer

SECURE MATRIX KVM SWITCH

SECURE ISOLATOR

VIDEOBAR DIODE

Guest Computer

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# ELIMINATE EAVESDROPPING

- **Securing Peripheral Media Devices**
  - Use a secure video bar with no internal client or wireless connectivity (WiFi/Bluetooth)
  - Control media vulnerabilities by remotely disabling power delivery.
  - Normally closed Videobar Diode requires intentional activation to transmit media.
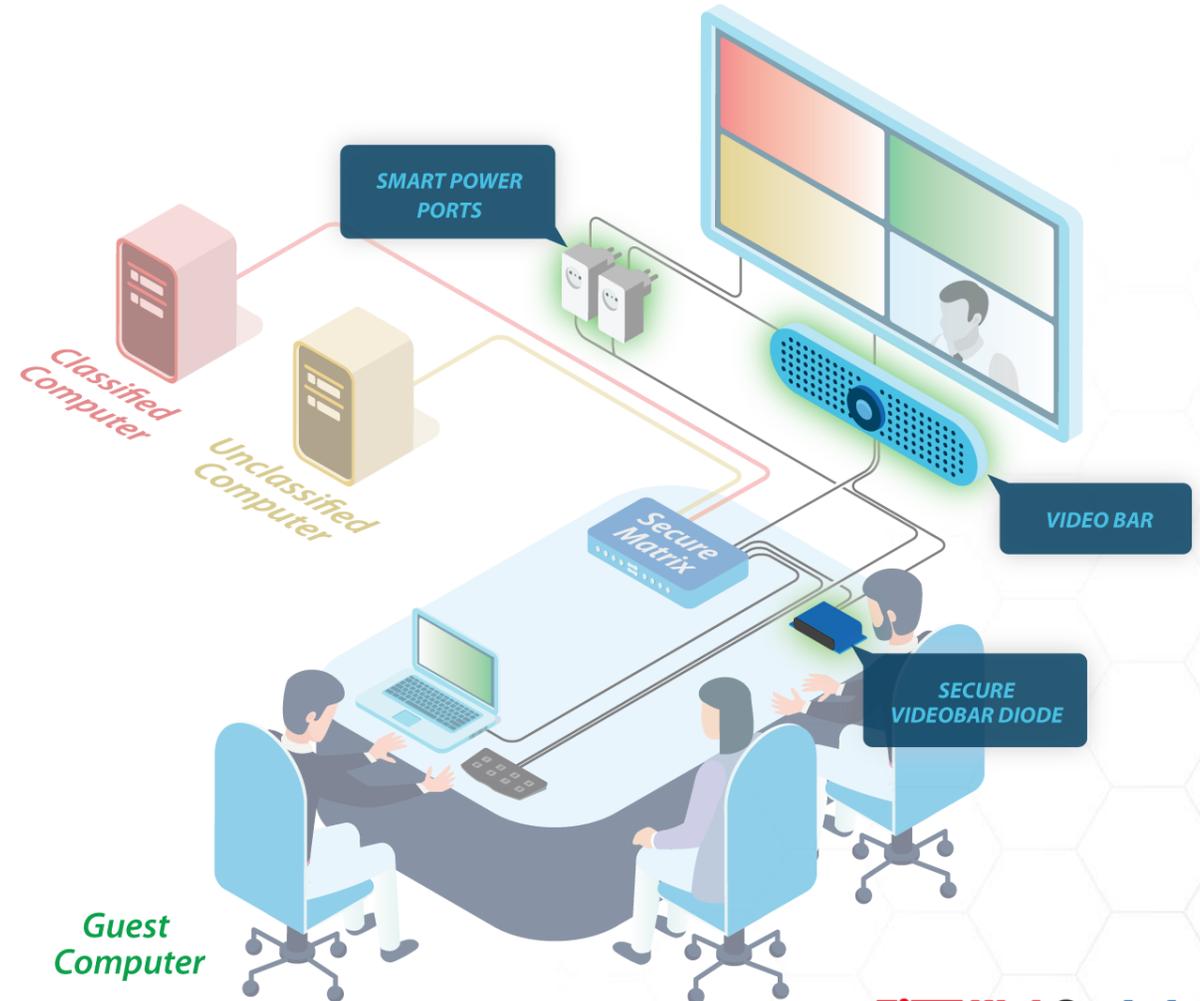
# A **VULNERABLE** MEETING ROOM

BYOD setups are vulnerable to cyberthreats because of shared peripherals.

- Host devices are connected directly to the display and video bar.

- Media devices with internal memory can be used to transfer data between computers.

- Pressing 'mute' doesn't eliminate the threat of eavesdropping. Mics and even speakers can still listen in.
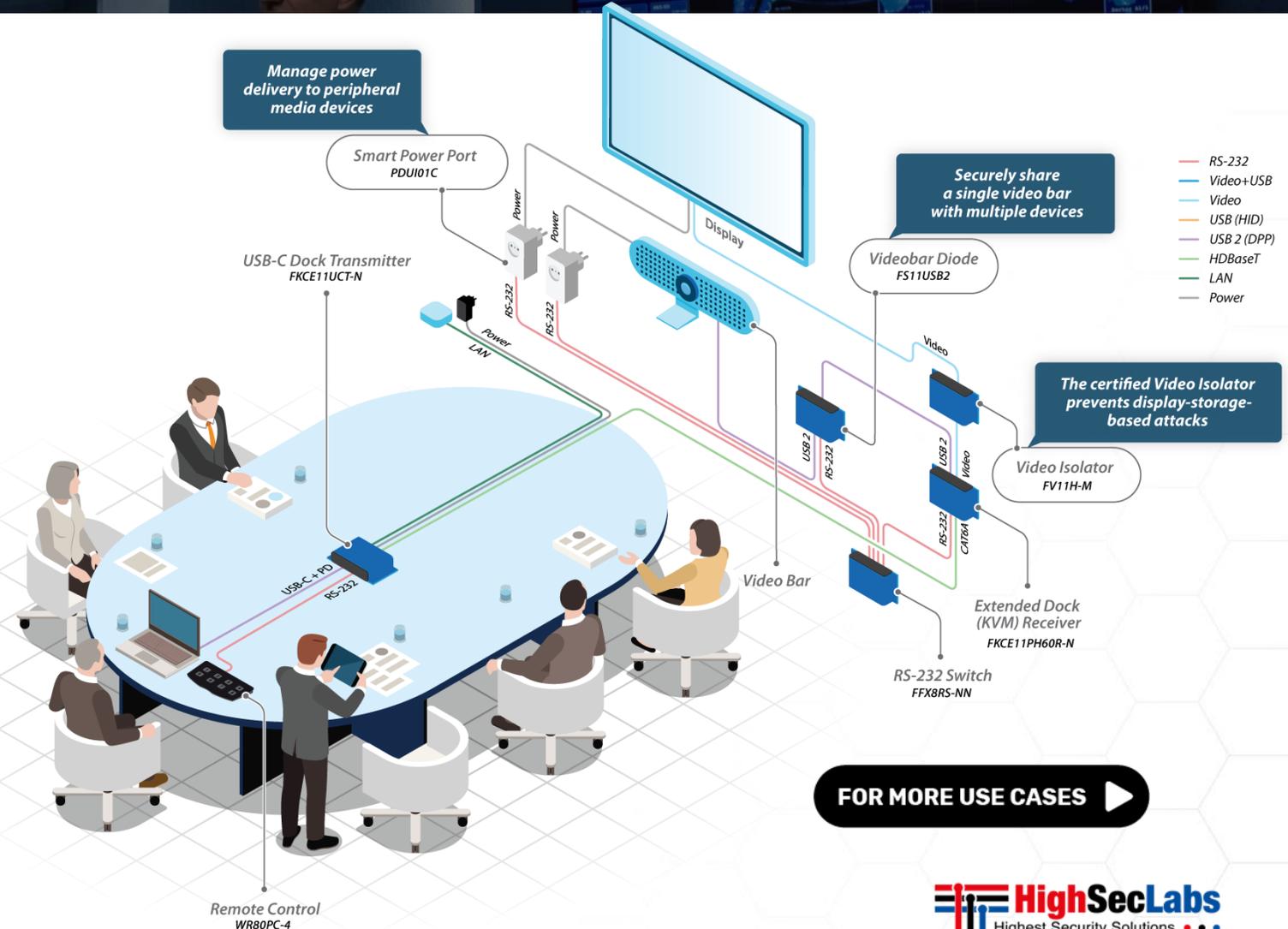


RS-232
Video+USB
Video
USB (HID)
USB 2 (DPP)
HDBaseT
LAN
Power

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# A **SECURE** MEETING ROOM

- Guests Laptops are isolated from displays via NIAP certified Isolators

- The video bar is isolated from hosts via the video bar diode

- The video bar and displays power delivery can be cut when entering 'classified mode'

- Extenders and docks do not include WiFi or BT capabilities

- All products are TAA/BAA compliant



**Manage power delivery to peripheral media devices**

Smart Power Port
*PDUI01C*

USB-C Dock Transmitter
*FKCE11UCT-N*

Display

**Securely share a single video bar with multiple devices**

Videobar Diode
*FS11USB2*

| | |
|---|---|
| — | RS-232 |
| — | Video+USB |
| — | Video |
| — | USB (HID) |
| — | USB 2 (DPP) |
| — | HDBaseT |
| — | LAN |
| — | Power |

**The certified Video Isolator prevents display-storage-based attacks**

Video Isolator
*FV11H-M*

Video Bar

USB-C + PD

RS-232

Extended Dock (KVM) Receiver
*FKCE11PH60R-N*

RS-232 Switch
*FFX8RS-NN*

Remote Control
*WR80PC-4*

FOR MORE USE CASES ▶

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# SOUNDSENTRY SOLUTION
## FAMILY OF SECURE DEVICES

**NIAP Certified Meeting Room Presentation Switches**

**Remote Control**

**NIAP Certified Video Isolators**

**RS-232 Switch**

**Smart Power Port**

**Uni-Directional Videobar and Media Diodes**

**TAA\BAA USB-C Desktop Docking Solutions**

**Extended Docking Stations and KVM Extenders**

# SOUNDSENTRY™
# VIDEOBAR DIODE

**Videobar Diode:** safely share a single video bar with multiple hosts of different classification levels.

- Only video and audio channels run between the host and video bar
- Complete emulation - hosts are isolated from video bar
- All channels are converted to unidirectional data flows
- Low pass filter – prevents ultrasonic transmission of data
- Timer controlled, normally closed operation
  - Prevents inadvertent audio/video transmissions

# SOUNDSENTRY™
# ADVANCED KVM SWITCHES



- The entire family of HSL's secure KVM Switches is compatible with SoundSentry™ Secure Meeting Room Solutions.

- Recommended KVM models for SoundSentry™:
  - Mini-Matrix
  - Ultra Mini-Matrix
  - Combiner

- Supports up to two 4K displays at 30 Hz and up to 8 input sources

- NIAP PP4.0 certified for PSD

- Switch channels and display layouts with the push of a button using HSL's remote control.
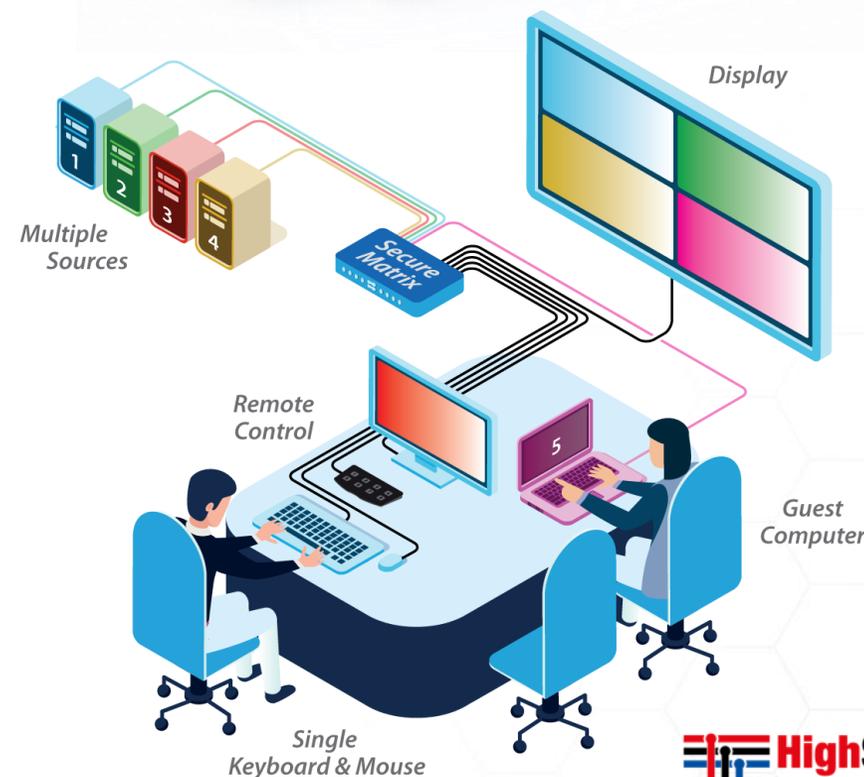
# SOUNDSENTRY™
# SMART POWER PORT



## Smart Power Port

- Remote RS-232 control enables the Smart Power Port to be switched on and off based on meeting security requirements:
  - Video conferencing
    - ‣ Display ON, video bar ON
  - Local presentation
    - ‣ Display ON, video bar OFF
  - Classified Meeting
    - ‣ Display OFF, video bar OFF
- Easy remote control, at the push of a button
- TAA compliant
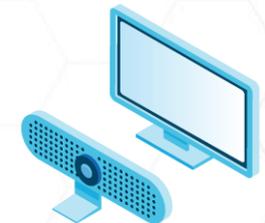
**LEARN MORE** ℹ

*Smart Power Port*

*Meeting Classification Command* → *Smart Power Port* → *Power On/Off*

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# SOUNDSENTRY™
## RS-232 SWITCH

Manage multiple RS-232 devices using a single remote control.

**Command Routing**

The switch is a central command gateway
- Only approved commands pass through
- Blocks all other commands
- Eliminates risks of data breaches and device hacking.

**Wired Safety**

Commands from a remote-control are received over an RS-232 cable and forwarded to multiple devices over individual RS-232 cables.
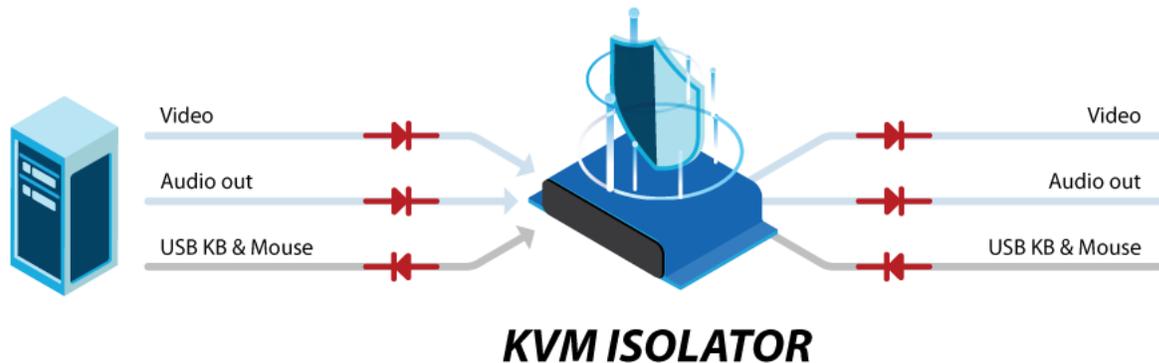
# SOUNDSENTRY™
## NIAP CERTIFIED KVM/VIDEO ISOLATORS

**Secure, NIAP PP4.0 Certified Isolators** enforce unidirectional flows of filtered computer video and USB data.

Isolators ensure that only permitted data is transferred from the source to its destination, preventing shared peripherals from compromising network security.



**LEARN MORE** ⓘ

CONSOLE SIDE
VIDEO OUT
VIDEO IN
PC SIDE
EDID LOCK
KM
PWR
DC 12V



Video
Audio out
USB KB & Mouse

Video
Audio out
USB KB & Mouse

**KVM ISOLATOR**

**HighSecLabs**
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# SOUNDSENTRY™
## DESKTOP & EXTENDED USB-C DOCKING SOLUTIONS

- Complete TAA and BAA compliant docking and extension solutions.

- No wireless or radiating components.

- **Docking Functionality -** Power Delivery charging of the connected device while providing access to peripherals via a single USB-C connection.

- **Extension -** Extenders facilitate placing the KVM switch and peripherals wherever convenient.
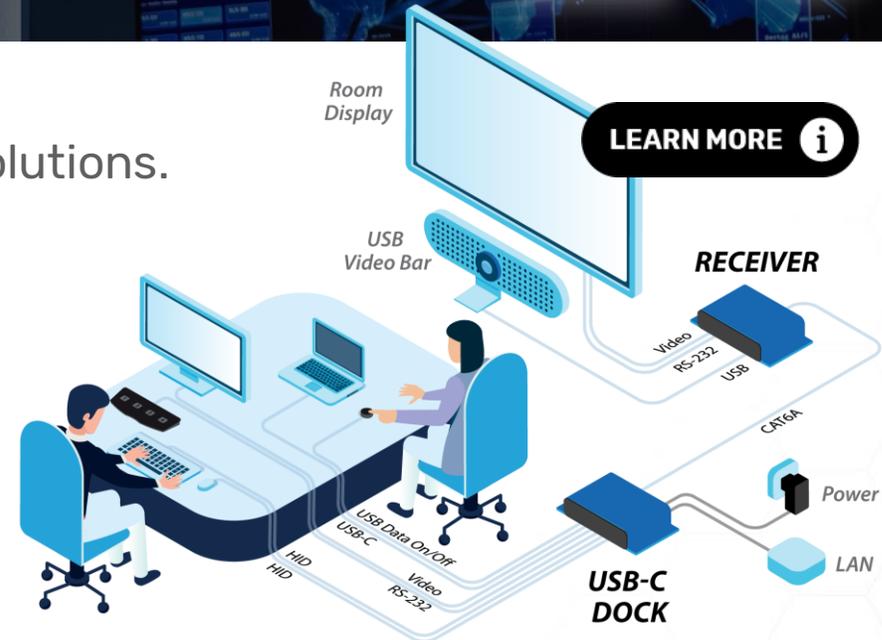
**KVM Extenders**

**USB-C Extended Docking**

**USB-C Docking Station**

**USB-C Cables**

# SOUNDSENTRY™
# REMOTE CONTROLS

## SoundSentry compatible remote controls

- Activate the desired meeting sensitivity mode with the push of a button:
  - Videoconference
  - Local Meeting
  - Classified meeting
- Invoke display layout presets with the push of a button.
- Cascade remotes to support any installation, regardless of size.

LEARN MORE

Remote-Control

RS-232 Switch

Smart Power Ports

Videobar Diode

Ultra Mini-Matrix

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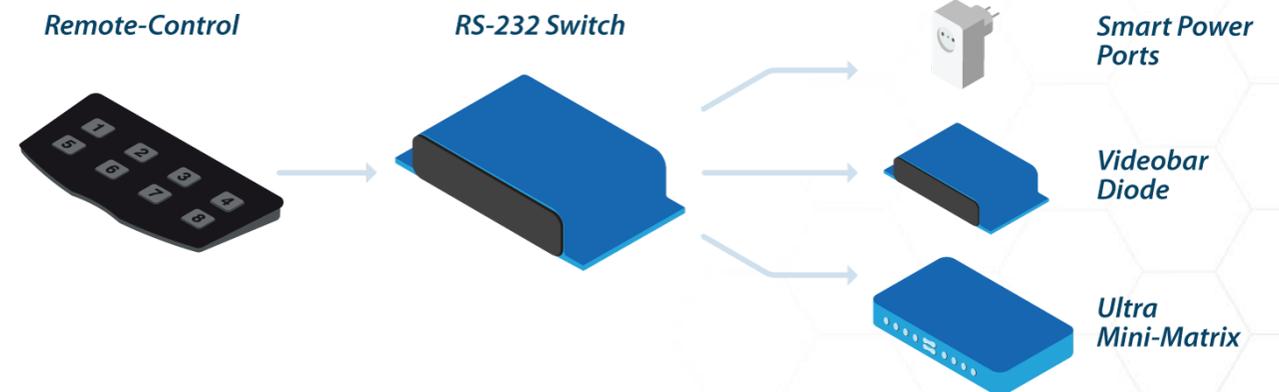
# Use Cases

SoundSentry™ is a flexible solution that protects all types of meeting rooms

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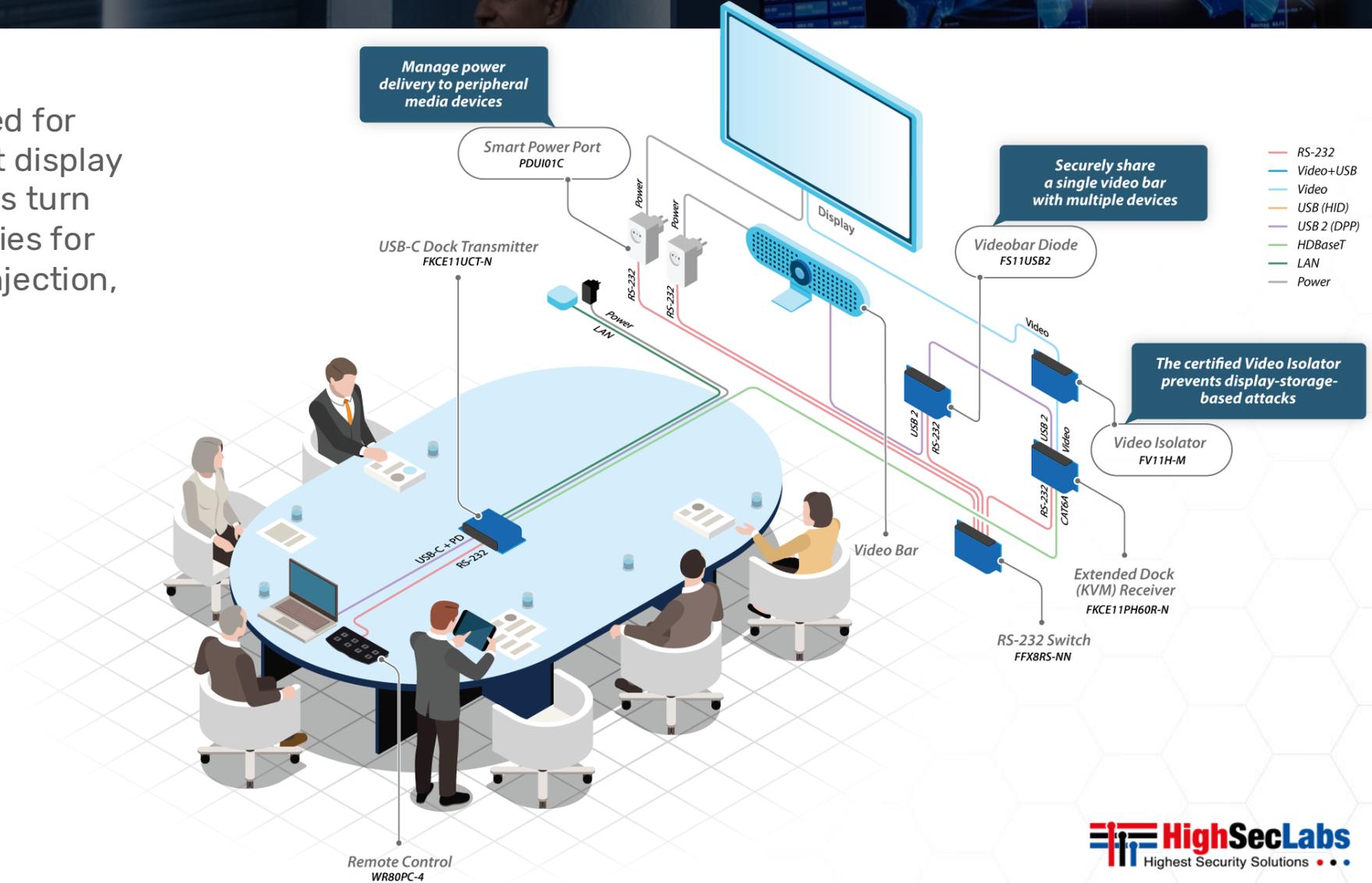Highest Security Solutions

# SECURE MEETING ROOM

**Manufactured under a secure TAA/BAA compliant supply chain**

Meeting rooms are equipped for seamless collaboration, but display and video bar vulnerabilities turn those peripherals into proxies for data extraction, malware injection, and eavesdropping.

**Manage power delivery to peripheral media devices**

Smart Power Port
PDUI01C

USB-C Dock Transmitter
FKCE11UCT-N

**Securely share a single video bar with multiple devices**

Videobar Diode
FS11USB2

**The certified Video Isolator prevents display-storage-based attacks**

Video Isolator
FV11H-M

Extended Dock (KVM) Receiver
FKCE11PH60R-N

RS-232 Switch
FFX8RS-NN

Video Bar

Display

Remote Control
WR80PC-4

RS-232
Video+USB
Video
USB (HID)
USB 2 (DPP)
HDBaseT
LAN
Power

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# SECURE
## MEETING ROOM WIRING DIAGRAM

| | Product | Model | Qty |
|---|---|---|---|
| ❶ | Remote Control | WR80PC-4 | 1 |
| ❷ | Dock Extender Tx | FKCE11UCT-N | 1 |
| ❸ | Dock Extender Rx | FKCE11PH60R-N | 1 |
| ❹ | Video Isolator | FV11H-M | 1 |
| ❺ | Videobar Diode | FS11USB2 | 1 |
| ❻ | RS232 Switch | FFX8RS-NN | 1 |
| ❼ | Smart Power Port | PDUI01C | 2 |



MEETING ROOM DISPLAY

TABLE SIDE — WALL SIDE

❼ SMART POWER PORT

Power ON/OFF     Video

❹ VIDEO ISOLATOR

ALL-IN-ONE USB VIDEO BAR

Power Port Controller

Power ON/OFF

RS-232 Commands

Videobar Diode Control     USB 2

HDBaseT

RS232
Video
USB (HID)
USB 2 (DPP)
HDBaseT
LAN
Power

❶ REMOTE CONTROL

LAPTOP

LAN     Power

❷ USB-C DOCK TRANSMITTER

USB-C

RS-232

HDBaseT

❻ RS 232 SWITCH

❺ VIDEOBAR DIODE

❸ EXTENDED DOCK (KVM) RECEIVER

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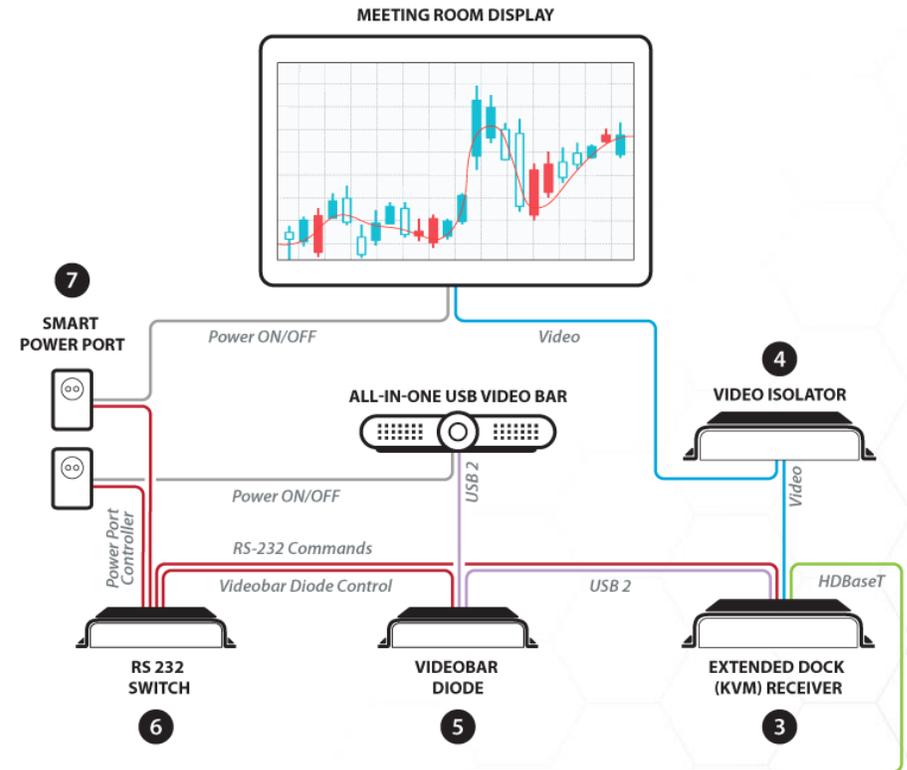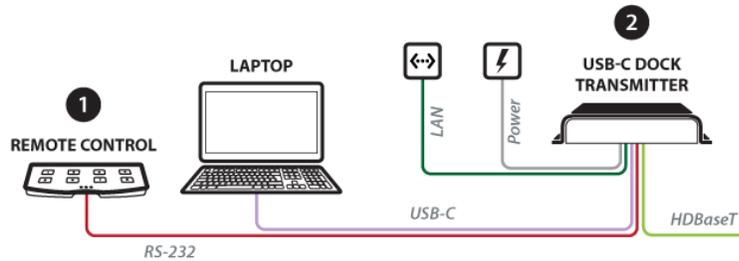
# SECURE
# BASIC EXECUTIVE OFFICES

**Manufactured under a secure TAA/BAA compliant supply chain**
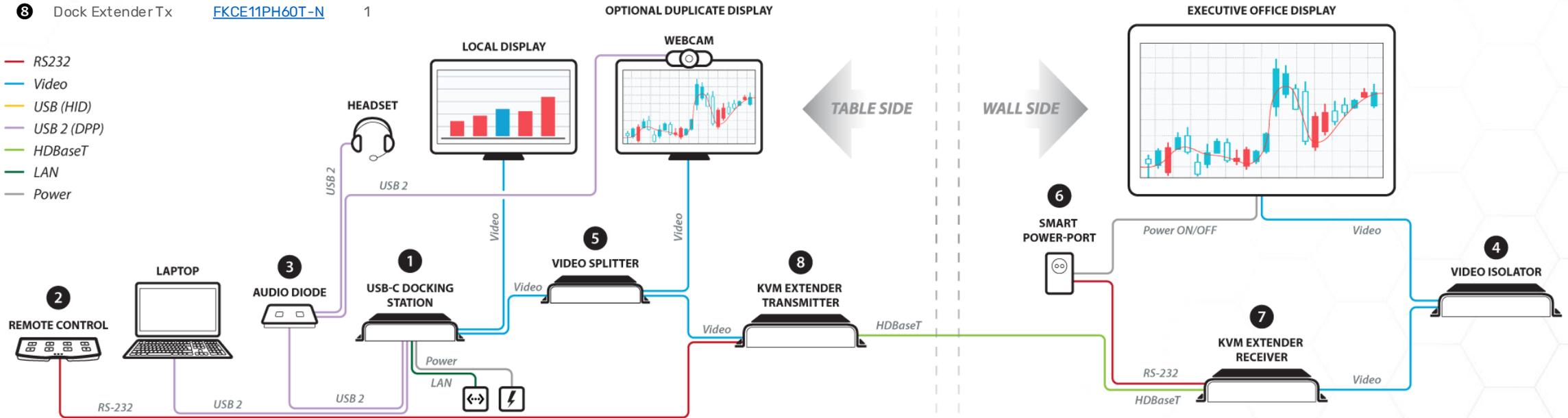
BAA COMPLIANT

TAA COMPLIANT

Executive-office security focuses on blocking guest devices. However, the executive's own tech (multiple monitors, a webcam, and a headset) introduces vulnerabilities for data breaches and eavesdropping.



Manage power delivery to peripheral media devices

Smart Power Port
PDUI01C

Room Display

Docking Station
UK12PHC-N

- RS-232
- Video+USB
- Video
- USB (HID)
- USB 2 (DPP)
- HDBaseT
- LAN
- Power

KVM Extender RX
FKCE11PH60R-N

The certified Video Isolator prevents display-storage-based attacks

Video Isolator
FV11H-M

USB-C + PD

KVM Extender TX
FKCE11PH60T-N

Remote Control
WR80PC-4

Video Splitter
PV12PH-N

Audio Diode
FA10BC-4

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# SECURE
## BASIC EXECUTIVE OFFICE WIRING DIAGRAM

| | Product | Model | Qty |
|---|---|---|---|
| ❶ | Docking Station | UK12PHC-N | 1 |
| ❷ | Remote Control | WR80PC-4 | 1 |
| ❸ | Audio Diode | FA10BC-4 | 1 |
| ❹ | Video Isolator | FV11H-M | 1 |
| ❺ | Video Splitter | PV12PH-N | 1 |
| ❻ | Smart Power Port | PDUI01C | 1 |
| ❼ | Dock Extender Rx | FKCE11PH60R-N | 1 |
| ❽ | Dock Extender Tx | FKCE11PH60T-N | 1 |

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# SUMMARY

- **TAA/BAA** compliant products

- An end-to-end secure and trusted supply chain

- A comprehensive solution, tailored to any meeting environment

# Thank You

## For more info:

www.highseclabs.com | info@highseclabs.com

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