# SoundSentry™
## SECURE MEETING ROOM SOLUTIONS
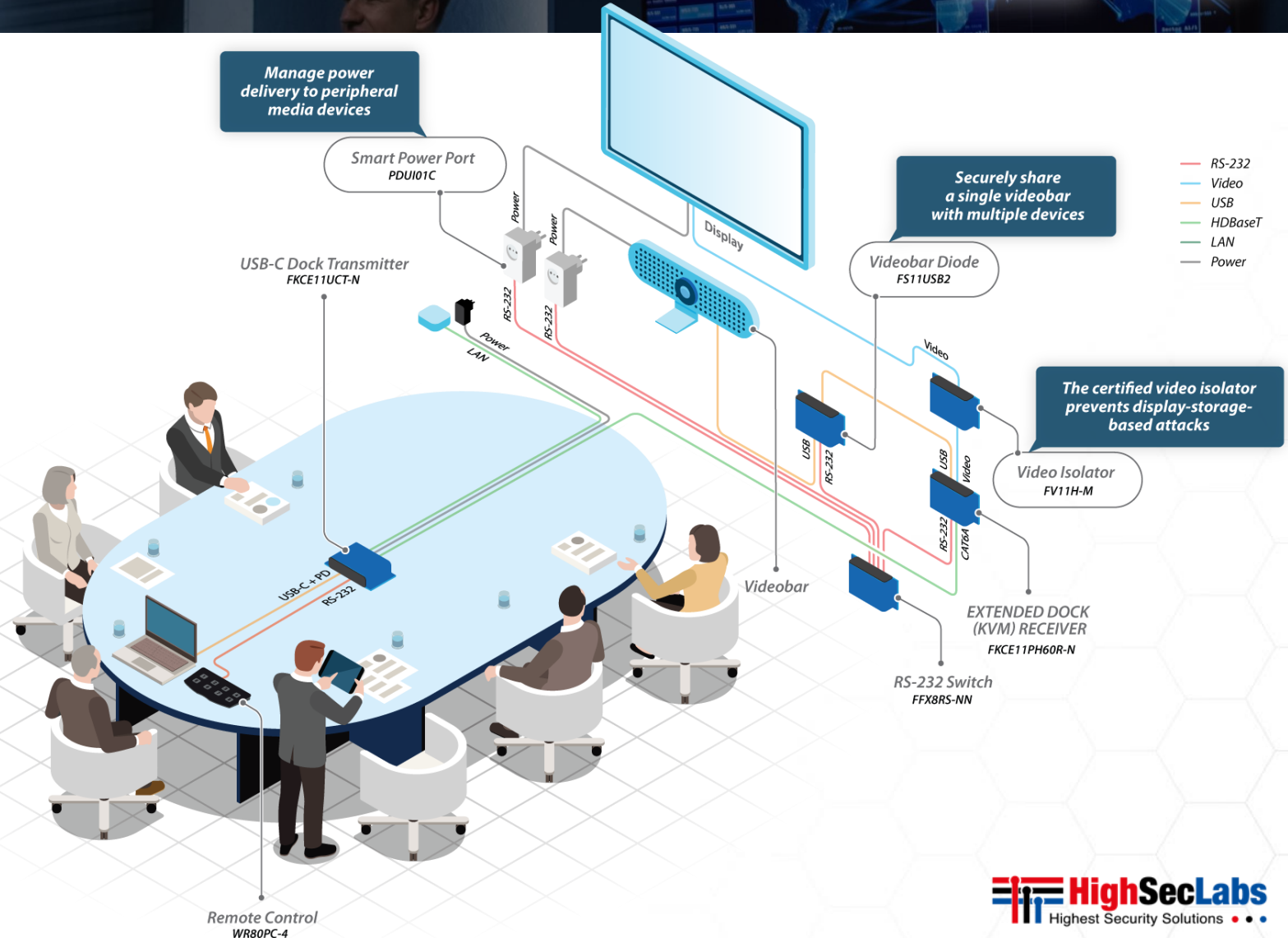## USE CASES

SoundSentry™ is fully scalable to accommodate
a range of environments.

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# SECURE
# MEETING ROOM

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

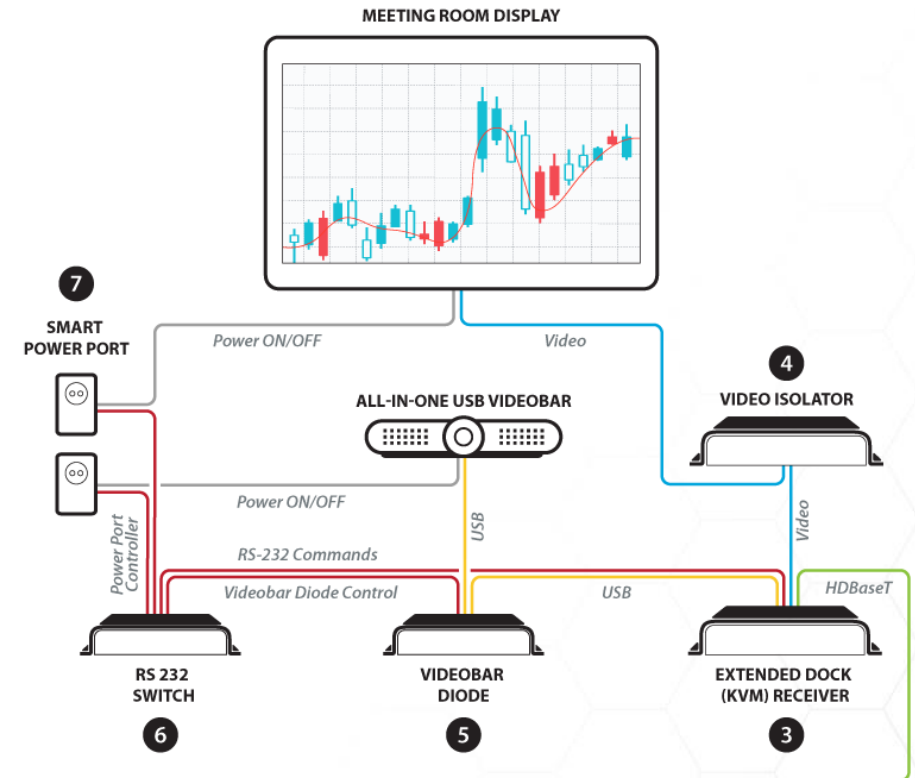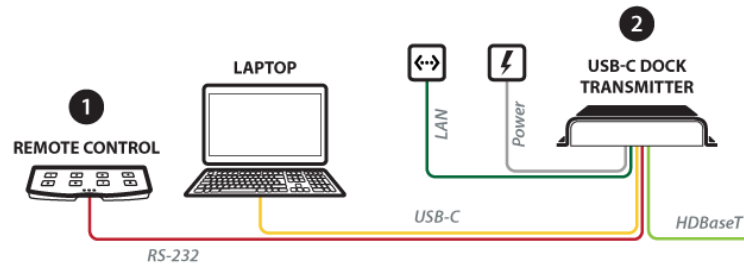BAA COMPLIANT

TRADE AGREEMENTS ACT • TAA COMPLIANT

Meeting rooms are equipped for seamless collaboration but the display and Videobar 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

Power
LAN
Power
RS-232
RS-232
Display

*Securely share a single videobar with multiple devices*

*Videobar Diode*
FS11USB2

RS-232 — Video — USB — HDBaseT — LAN — Power

USB-C + PD
RS-232

Videobar

USB
RS-232
Video
USB
Video

*The certified video isolator prevents display-storage-based attacks*

*Video Isolator*
FV11H-M

RS-232
CAT6A

*EXTENDED DOCK (KVM) RECEIVER*
FKCE11PH60R-N

*RS-232 Switch*
FFX8RS-NN

*Remote Control*
WR80PC-4

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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 VIDEOBAR

Power ON/OFF

Power Port Controller

RS-232 Commands

Videobar Diode Control    USB    HDBaseT

LAPTOP

❷ USB-C DOCK TRANSMITTER

LAN    Power

❶ REMOTE CONTROL

RS232
Video
USB
HDBaseT
LAN
Power

USB-C

RS-232

HDBaseT

❻ RS 232 SWITCH

❺ VIDEOBAR DIODE

❸ EXTENDED DOCK (KVM) RECEIVER

Video

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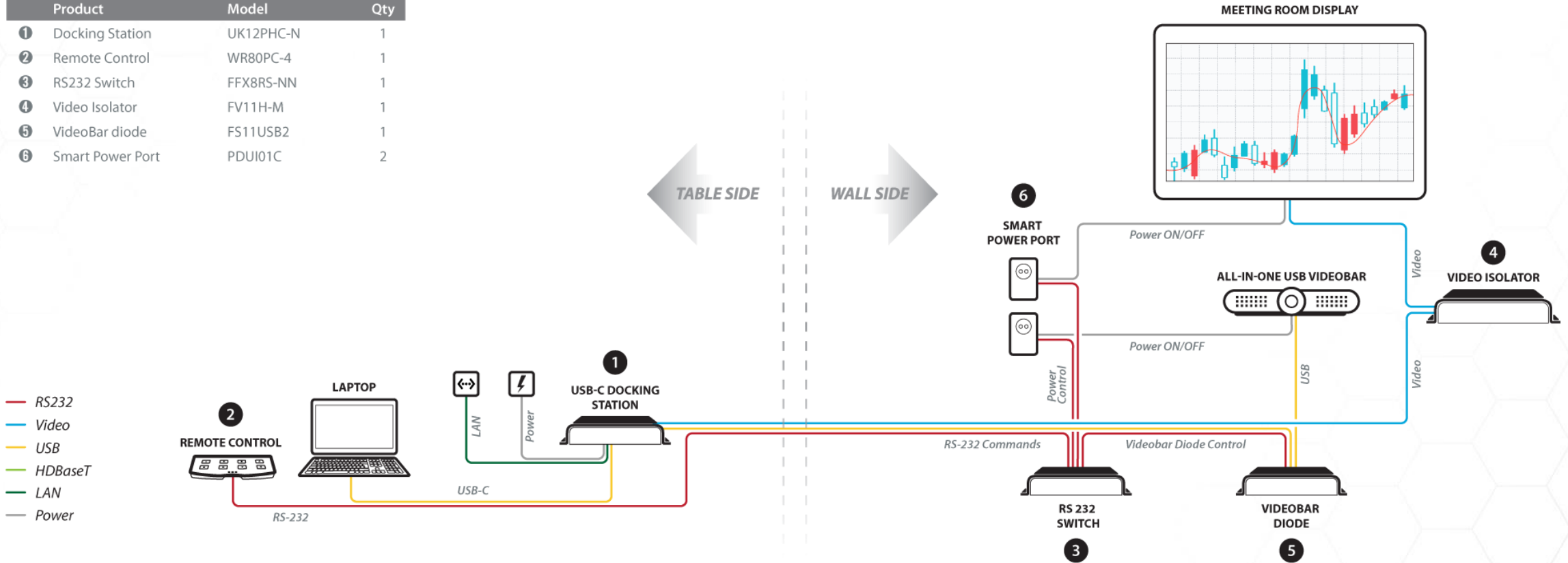
BAA COMPLIANT

TAA COMPLIANT

Huddle rooms are designed for quick collaboration, but their simple tech (display, camera, and guest USB-C port) presents significant security risks for malware, data extraction and eavesdropping.



**Manage power delivery to peripheral media devices**

*Smart Power Port*
*PDUI01C*

*Display*

Power

*USB-C Dock*
*UK12PHC-N*

Power
LAN

RS-232

RS-232

USB-C + PD

RS-232

*Securely share a single videobar with multiple devices*

*Videobar Diode*
*FS11USB2*

USB
USB
RS-232

Video

Video

*The certified video isolator prevents display-storage-based attacks*

*Video Isolator*
*FV11H-M*

*Videobar*

*RS-232 Switch*
*FFX8RS-NN*

*Remote Control*
*WR80PC-4*

Video+USB
RS-232
Video
USB
HDBaseT
LAN
Power

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# SECURE
# HUDDLE ROOM WIRING DIAGRAM



| Product | Model | Qty |
|---------|-------|-----|
| ❶ Docking Station | UK12PHC-N | 1 |
| ❷ Remote Control | WR80PC-4 | 1 |
| ❸ RS232 Switch | FFX8RS-NN | 1 |
| ❹ Video Isolator | FV11H-M | 1 |
| ❺ VideoBar diode | FS11USB2 | 1 |
| ❻ Smart Power Port | PDUI01C | 2 |

MEETING ROOM DISPLAY

TABLE SIDE    WALL SIDE

❻ SMART POWER PORT

Power ON/OFF

ALL-IN-ONE USB VIDEOBAR

Power ON/OFF

❹ VIDEO ISOLATOR

Video

USB

Video

Power Control

LAPTOP

LAN    Power

❶ USB-C DOCKING STATION

❷ REMOTE CONTROL

RS-232 Commands    Videobar Diode Control

USB-C

RS-232

❸ RS 232 SWITCH

❺ VIDEOBAR DIODE

**Legend:**
— RS232
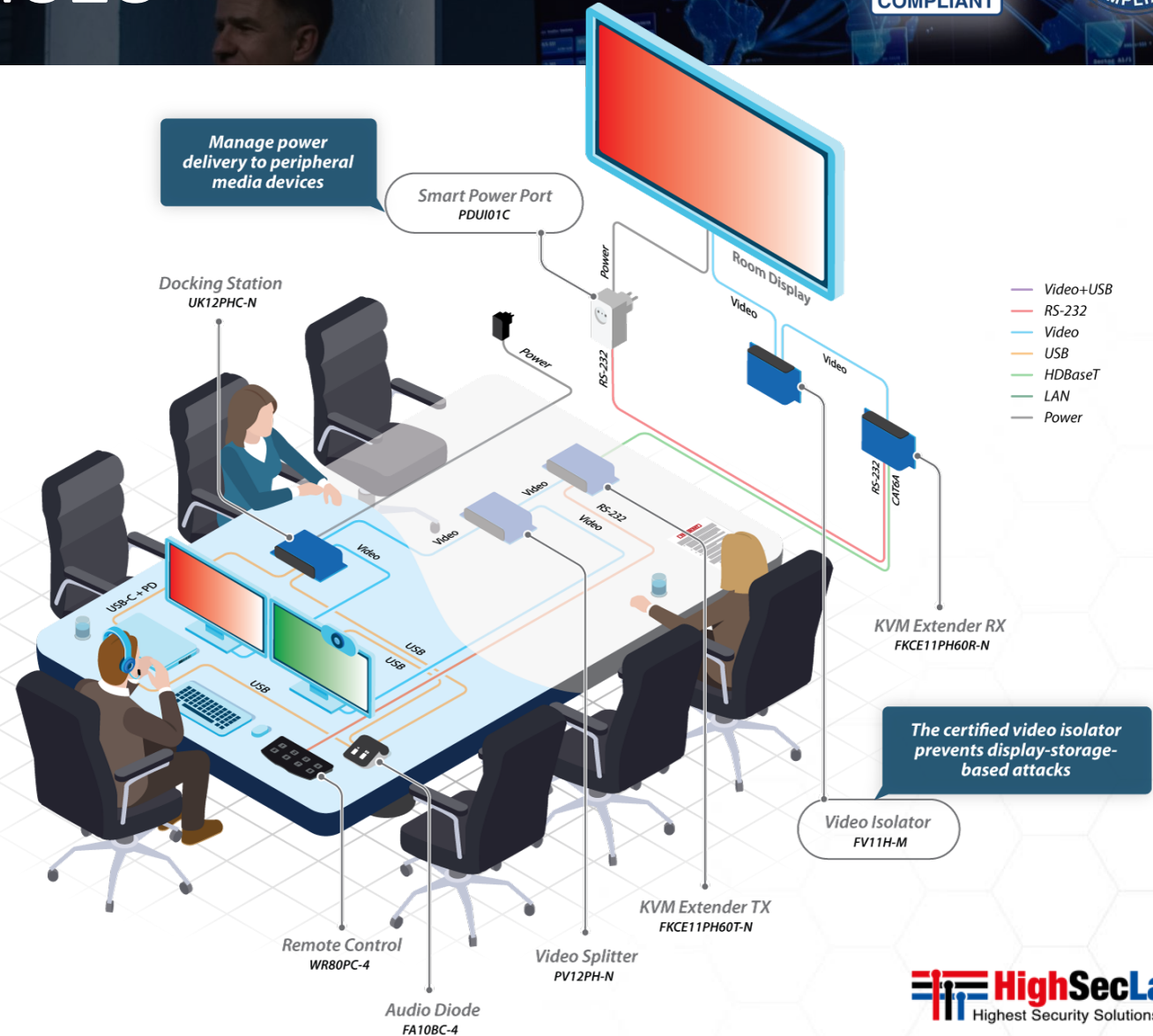— Video
— USB
— HDBaseT
— LAN
— Power

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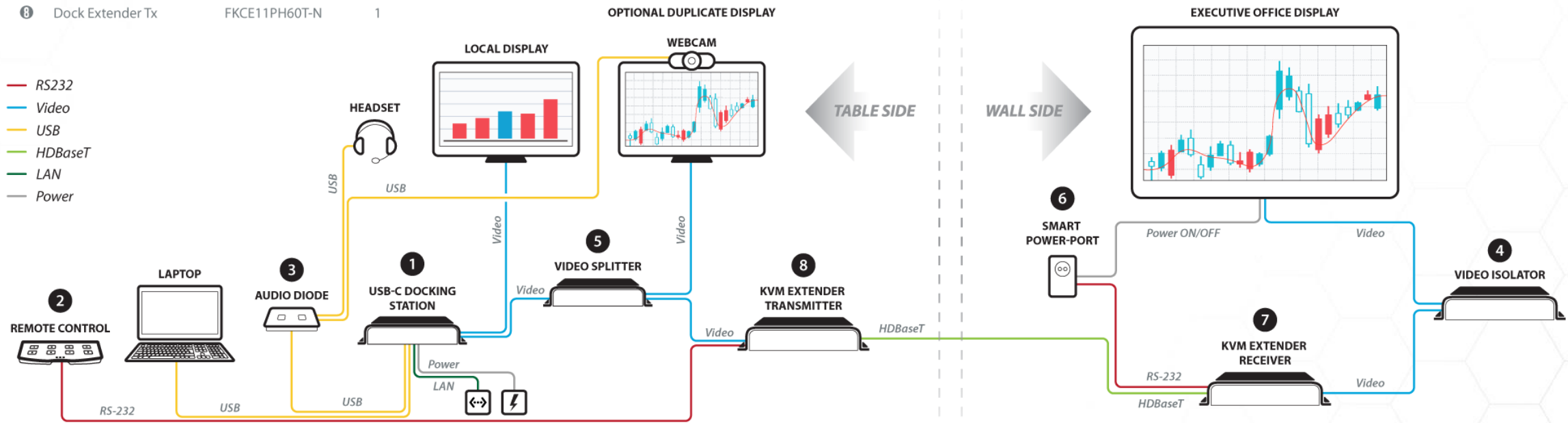**Manufactured under a secure TAA/BAA compliant supply chain**

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

Video+USB
RS-232
Video
USB
HDBaseT
LAN
Power

KVM Extender RX
FKCE11PH60R-N

The certified video isolator prevents display-storage-based attacks

Video Isolator
FV11H-M

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 |

**Legend:**
- RS232
- Video
- USB
- HDBaseT
- LAN
- Power

OPTIONAL DUPLICATE DISPLAY

EXECUTIVE OFFICE DISPLAY

LOCAL DISPLAY

WEBCAM

HEADSET

TABLE SIDE

WALL SIDE

❻ SMART POWER-PORT

Power ON/OFF

Video

USB

USB

Video

Video

LAPTOP

❸ AUDIO DIODE

❶ USB-C DOCKING STATION

❺ VIDEO SPLITTER

Video

❽ KVM EXTENDER TRANSMITTER

❹ VIDEO ISOLATOR

❷ REMOTE CONTROL

Video

Video

HDBaseT

❼ KVM EXTENDER RECEIVER

Power

LAN

RS-232

RS-232

USB

USB

Video

HDBaseT
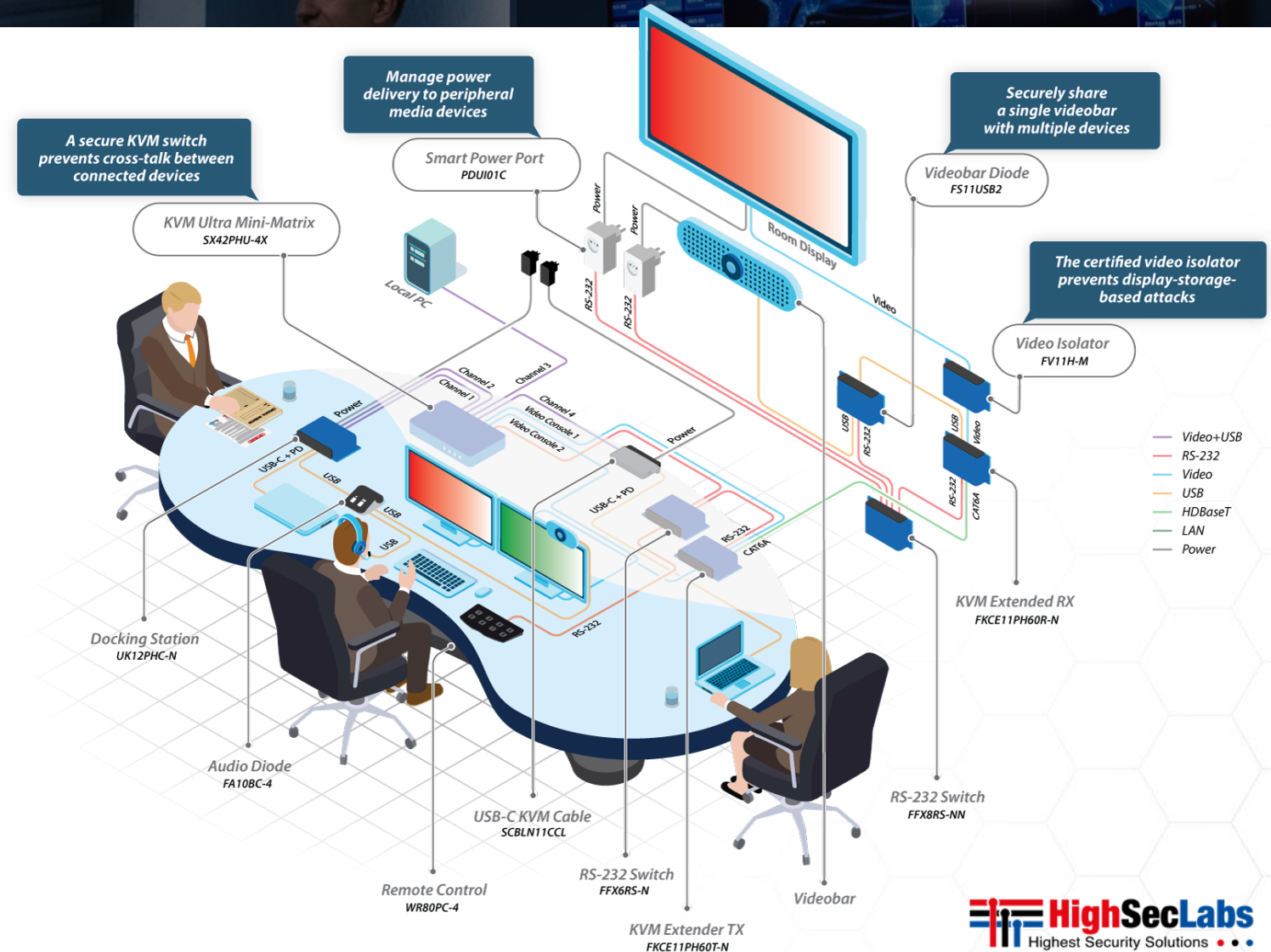
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# SECURE
# STANDARD EXECUTIVE OFFICE

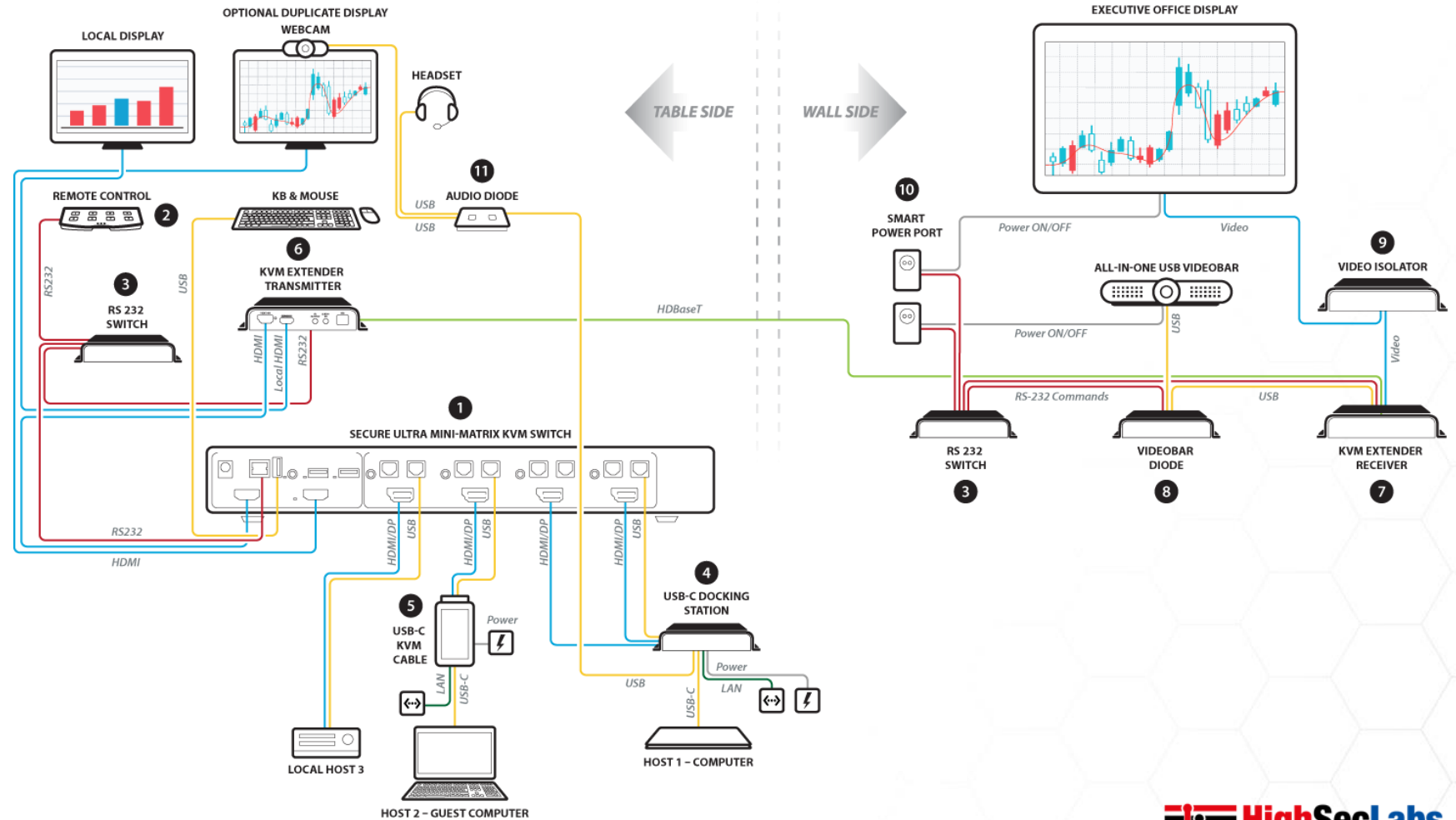**Manufactured under a secure TAA/BAA compliant supply chain**

Designed for versatility, the senior executive office's core features introduce serious security flaws.
Support for simultaneous inputs from a guest, the executive, and classified network devices creates a direct path for malware and data breaches.
Likewise, its Videobar and dedicated peripherals are prime targets for exploitation.



A secure KVM switch prevents cross-talk between connected devices

Manage power delivery to peripheral media devices

Securely share a single videobar with multiple devices

The certified video isolator prevents display-storage-based attacks

Smart Power Port
PDUI01C

KVM Ultra Mini-Matrix
SX42PHU-4X

Videobar Diode
FS11USB2

Video Isolator
FV11H-M

Local PC

Room Display

Channel 2
Channel 1
Channel 3
Channel 4
Video Console 1
Video Console 2

Power

USB-C + PD

USB-C + PD

KVM Extended RX
FKCE11PH60R-N

Docking Station
UK12PHC-N

Audio Diode
FA10BC-4

USB-C KVM Cable
SCBLN11CCL

RS-232 Switch
FFX6RS-N

Videobar

RS-232 Switch
FFX8RS-NN

Remote Control
WR80PC-4

KVM Extender TX
FKCE11PH60T-N

Video+USB
RS-232
Video
USB
HDBaseT
LAN
Power

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# SECURE
## STANDARD EXECUTIVE OFFICES WIRING DIAGRAM



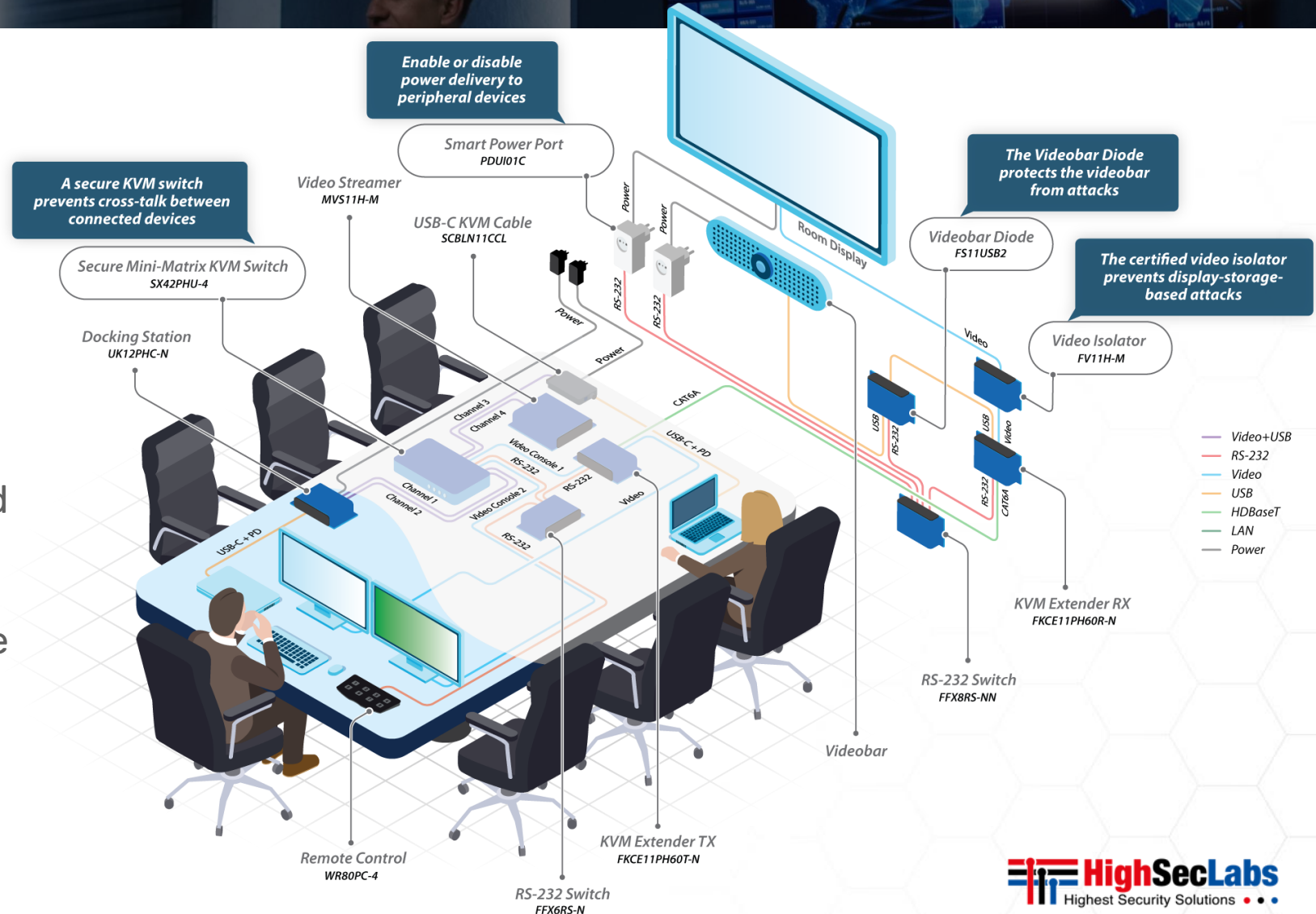| | Product | Model | Qty |
|---|---|---|---|
| ❶ | Secure Ultra MM KVM Switch | SX42PHU-4X | 1 |
| ❷ | Remote Control | WR80PC-4 | 1 |
| ❸ | RS232 Switch | FFX8RS-NN | 2 |
| ❹ | Docking Station | UK12PHC-N | 1 |
| ❺ | USB-C KVM DH Cable | DCBLN12CCL | 1 |
| ❻ | Extender Tx | FKCE11PH60T-N | 1 |
| ❼ | Extender Rx | FKCE11PH60R-N | 1 |
| ❽ | Videobar Diode | FS11USB2 | 1 |
| ❾ | Video Isolator | FV11H-M | 1 |
| ❿ | Smart Power Port | PDUI01C | 2 |
| ⓫ | Audio Diode | FA10BC-4 | 1 |

# SECURE
# SENIOR EXECUTIVE OFFICE

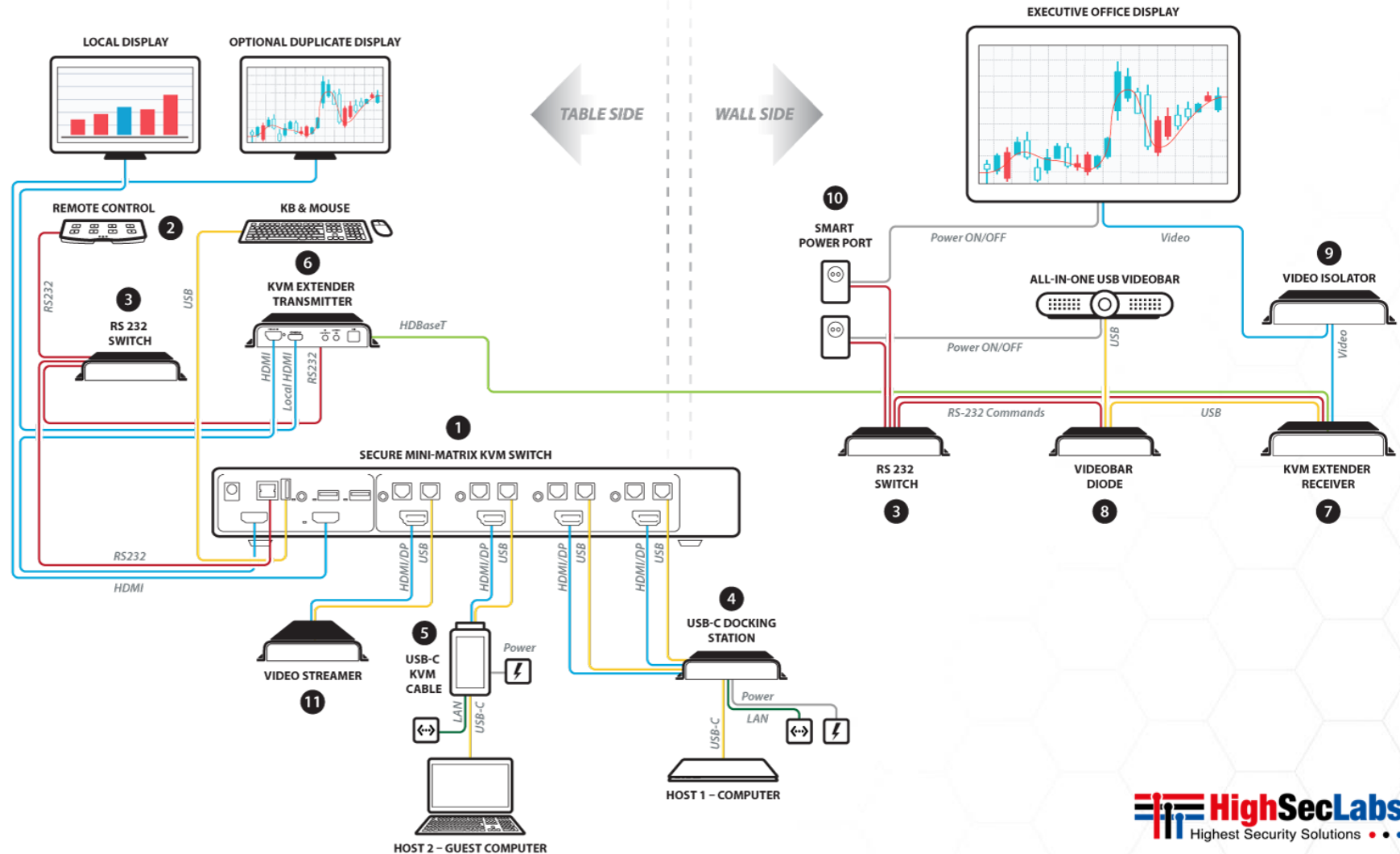**Manufactured under a secure TAA/BAA compliant supply chain**

Blending a private workspace with a meeting room, the executive suite's design creates vulnerabilities. The executive works on private displays while guest content is presented, creating a high-value target for attackers. The guest connection, displays, and Videobar are potential attack vectors for malicious code injection, data leakage from the executive's private screens, and eavesdropping on confidential conversations.

Enable or disable power delivery to peripheral devices

Smart Power Port
PDUI01C

A secure KVM switch prevents cross-talk between connected devices

Video Streamer
MVS11H-M

USB-C KVM Cable
SCBLN11CCL

The Videobar Diode protects the videobar from attacks

Videobar Diode
FS11USB2

Secure Mini-Matrix KVM Switch
SX42PHU-4

The certified video isolator prevents display-storage-based attacks

Video Isolator
FV11H-M

Docking Station
UK12PHC-N

Room Display

Channel 3
Channel 4
Video Console 1
RS-232
RS-232

CAT6A

USB-C + PD

Channel 1
Channel 2
Video Console 2
RS-232
Video

USB-C + PD

RS-232

KVM Extender RX
FKCE11PH60R-N

RS-232 Switch
FFX8RS-NN

Videobar

Video+USB
RS-232
Video
USB
HDBaseT
LAN
Power

Remote Control
WR80PC-4

RS-232 Switch
FFX6RS-N

KVM Extender TX
FKCE11PH60T-N

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# SECURE
## SENIOR EXECUTIVE OFFICE WIRING DIAGRAM



| | Product | Model | Qty |
|---|---|---|---|
| ❶ | Secure Mini-Matrix KVM | SX42PHU-4 | 1 |
| ❷ | Remote Control | WR80PC-4 | 1 |
| ❸ | RS232 Switch | FFX8RS-NN | 2 |
| ❹ | Docking Station | UK12PHC-N | 1 |
| ❺ | USB-C KVM SH Cable | SCBLN11CCL | 1 |
| ❻ | Extender Tx | FKCE11PH60T-N | 1 |
| ❼ | Extender Rx | FKCE11PH60R-N | 1 |
| ❽ | Videobar Diode | FS11USB2 | 1 |
| ❾ | Video Isolator | FV11H-M | 1 |
| ❿ | Smart Power-Port | PDUI01C | 2 |
| ⓫ | Video Streamer | MVS11H-M | 1 |

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

A boardroom is specifically designed for formal gatherings of senior leadership and other high-level decision-making teams. The room is typically equipped with at least two guest laptop connections, one or two local PCs connected to separate classified networks, two presentation displays, and a Videobar supporting virtual meetings. This setting is an attractive hacking target, using the vulnerabilities of peripherals and multiple network connections as attack vectors.



**Manage power delivery to peripheral media devices**

**A secure KVM switch prevents cross-talk between connected devices**

**Smart Power Port** PDUI01C

**Securely share a single videobar with multiple devices**

**KVM Ultra Mini-Matrix** SX42PHU-4X

*Videobar Diode* FS11USB2

Optional Display

Room Display

**The certified video isolator prevents display-storage-based attacks**

*Video Isolator* FV11H-M

*Classified Computer*

*Unclassified Computer*

*USB-C KVM Cable* DCBLN12CCL

CAT6A

Video

Video

RS-232

RS-232

Video

RS-232

USB

USB

RS-232

RS-232

CAT6A

Video

USB-C + PD

Power

Video

Video+USB
RS-232
Video
USB
HDBaseT
LAN
Power

*Videobar*

*KVM Extender RX* FKCE11PH60R-N

**KVM Extender TX** FKCE11PH60T-N

*RS-232 Switch* FFX8RS-NN

*RS-232 Switch* FFX8RS-NN

*Docking Station* UK12PHC-N

*Remote Control* WR80PC-4

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# SECURE
## BOARD ROOM WIRING DIAGRAM



| | Product | Model | |
|---|---|---|---|
| ❶ | Secure Ultra MM KVM Switch | SX42PHU-4X | 1 |
| ❷ | Remote Control | WR80PC-4 | 1 |
| ❸ | RS232 Switch | FFX8RS-NN | 2 |
| ❹ | USB-C KVM DH Cable | DCBLN12CCL | 1 |
| ❺ | Docking Station | UK12PHC-N | 1 |
| ❻ | Extender Tx | FKCE11PH60T-N | 1 |
| ❼ | Extender Rx | FKCE11PH60R-N | 1 |
| ❽ | Videobar Diode | FS11USB2 | 1 |
| ❾ | Video Isolator | FV11H-M | 1 |
| ❿ | Smart Power-Port | PDUI01C | 3 |

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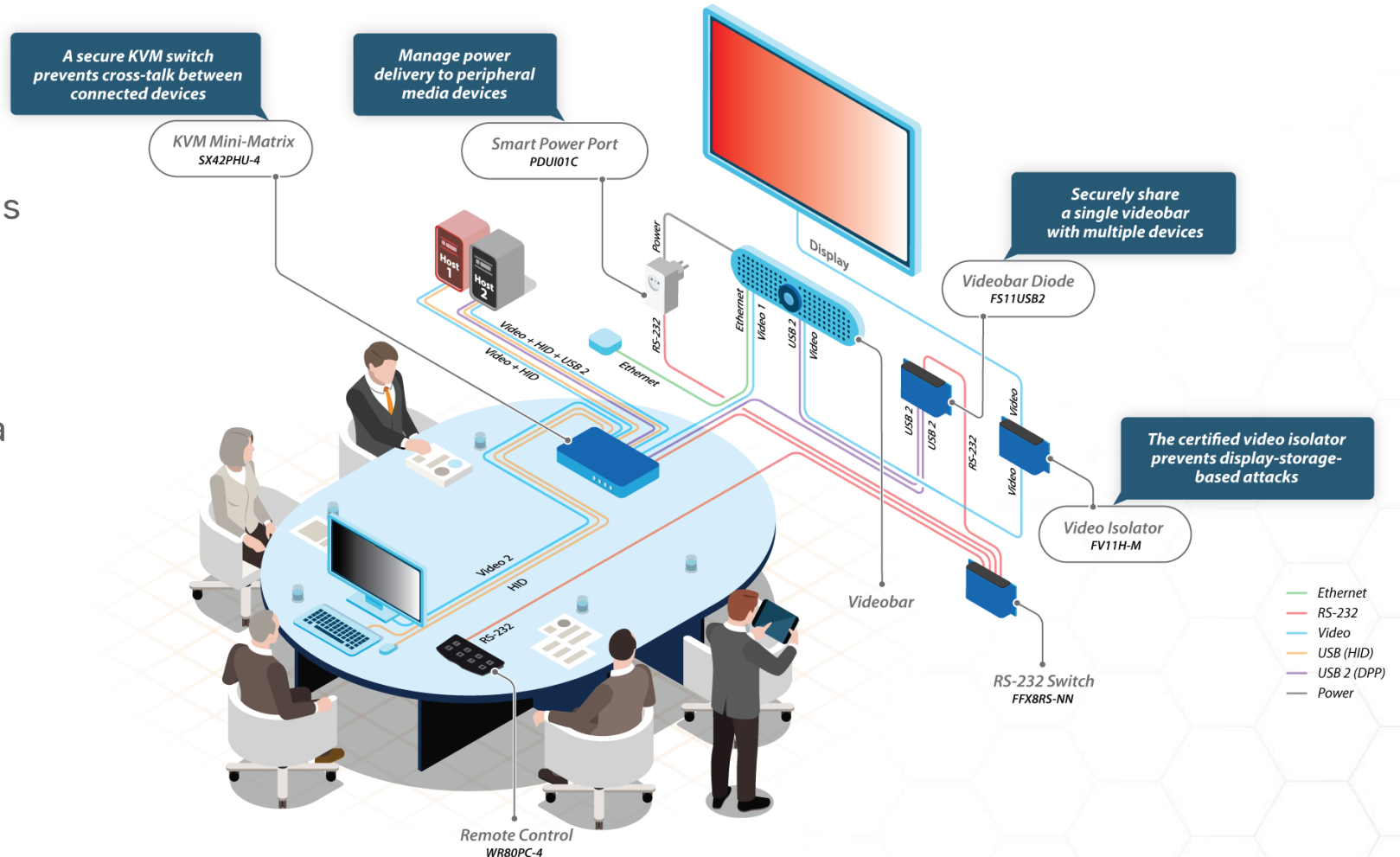Highest Security Solutions

# SECURE CONFERENCING
## SYSTEM W/ INTERNAL CLIENT

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

Modern meeting rooms rely on commercial conferencing systems that include an embedded computing client — and this client is often the weakest point in the entire environment. With active internet access and unrestricted connectivity to displays, and multiple host devices, it becomes a high-value target for attackers.



A secure KVM switch prevents cross-talk between connected devices

KVM Mini-Matrix
SX42PHU-4

Manage power delivery to peripheral media devices

Smart Power Port
PDUI01C

Securely share a single videobar with multiple devices

Videobar Diode
FS11USB2

The certified video isolator prevents display-storage-based attacks

Video Isolator
FV11H-M

Host 1
Host 2

Display

Power

RS-232

Ethernet

Ethernet
Video 1
USB 2
Video

USB 2
USB 2
RS-232
Video
Video

Videobar

Video + HID + USB 2
Video + HID

Video 2
HID

RS-232

RS-232 Switch
FFX8RS-NN

Remote Control
WR80PC-4

Ethernet
RS-232
Video
USB (HID)
USB 2 (DPP)
Power

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SECURE CONFERENCING SYSTEM
W/ INTERNAL CLIENT WIRING DIAGRAM

| Product | Model | Qty |
|---------|-------|-----|
| ❶ Secure Mini-matrix KVM Switch | SX42PHU-4 | 1 |
| ❷ Remote Control | WR80PC-4 | 1 |
| ❸ RS232 Switch | FFX8RS-NN | 1 |
| ❹ Video Isolator | FV11PH-M | 1 |
| ❺ VideoBar diode | FS11USB2 | 1 |
| ❻ Smart Power Port | PDUI01C | 1 |

15 | Secure Meeting Rooms
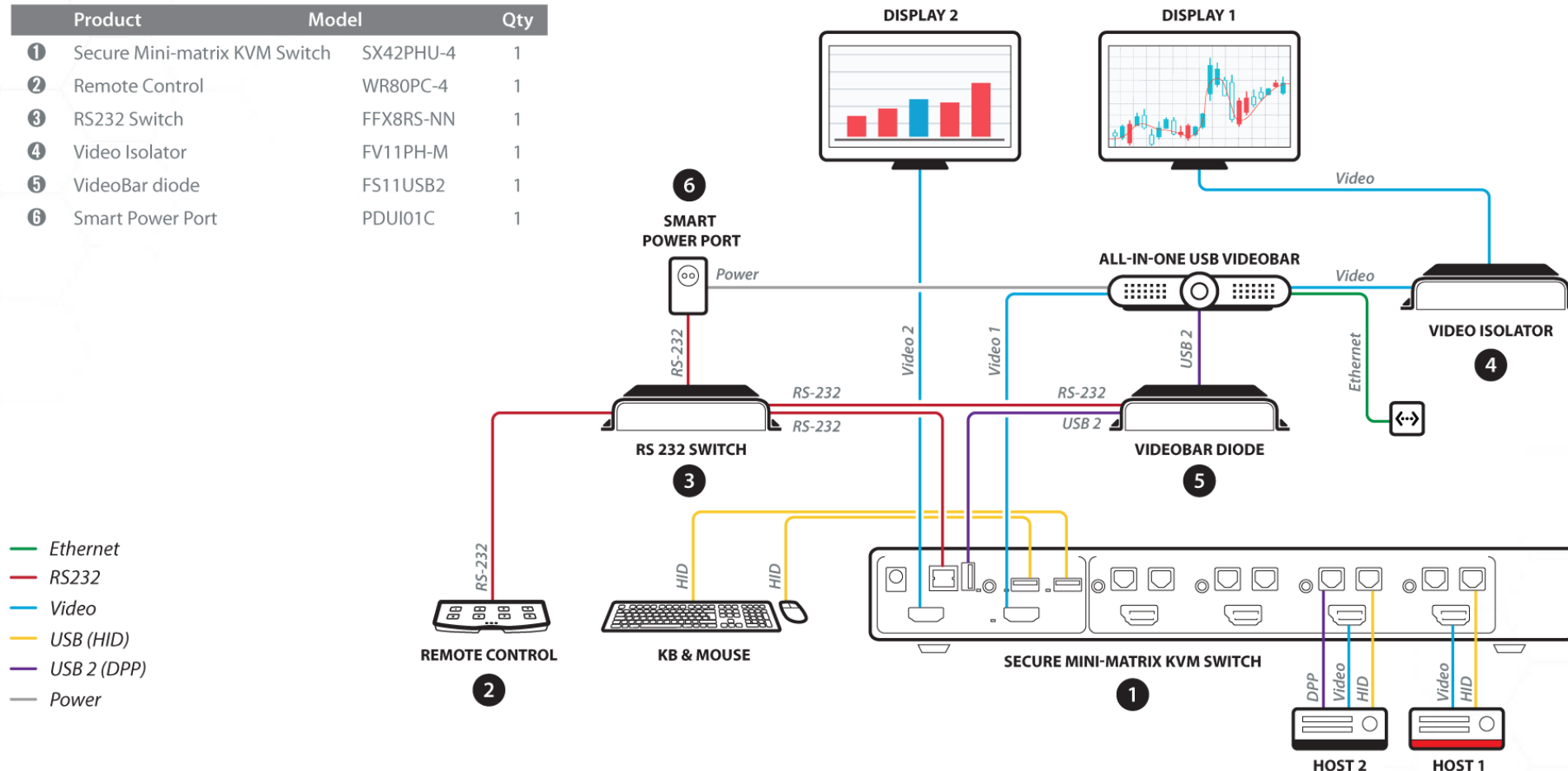
| PN | Model | Description | Meeting Room | Huddle Room | Basic Executive Office | Standard Executive Office | Senior Executive Office | Boardroom | Videobar w/ Internal Client |
|---|---|---|---|---|---|---|---|---|---|
| CPN35428 | FFX8RS-NN | **RS232 switcher 8 ports** | 1 | 1 | | 2 | 2 | 2 | 1 |
| CPN35322 | FS11USB2 | **Video bar diode USB 2.0 mountable** | 1 | 1 | | 1 | 1 | 1 | 1 |
| CPN35435 | PDUI01C | **Managed power port** | 2 | 2 | 1 | 2 | 2 | 3 | 1 |
| CPN33179 | SX42PHU-4X | **Meeting room advanced 4:2 matrix, secured** | | | | 1 | | 1 | |
| CPN33181 | SX42PHU-NX | **Meeting room advanced 4:2 matrix, Commercial** | | | | | | | |
| CPN37155 | FKCE11UC60-N | **USB-C extended doc Tx+Rx** | 1 | | 1 | 1 | 1 | 1 | |
| CPN31361 | WR80PC-4 | **8P Programable RGB Remote Control** | 1 | 1 | 1 | | 1 | 1 | 1 |
| CPN19263 | SX42PHU-4 | **Secure mini MTX** | | | | | 1 | | 1 |
| CPN30833 | UK12PHC-N | **USB-C Docking station** | | 1 | 1 | 1 | 1 | 1 | |
| CPN24279 | DCBLN12CCL | **Cable bump DH** | | | | 1 | 1 | 1 | |
| CPN20663 | FV11H-M | **Secure 1-Port video isolator HDMI** | | 1 | 1 | 1 | 1 | 1 | 1 |
| CPN22569 | FA10BC-4 | **AD USB to Analog with Mic. and Cam.** | | | 1 | 1 | 1 | | |
| CPN28270 | PV12PH-N | **2 Ports Video Splitter** | | | 1 | | | | |

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# Thank You

## For more info:

www.highseclabs.com | info@highseclabs.com

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