

Vertiv™ Avocent® ADX IPUHD 4K IP KVM Device GUIDE SPECIFICATIONS

1.0 GENERAL

1.1 Summary

This specification shall define the electrical and mechanical characteristics and requirements Vertiv™ Avocent® ADX IPUHD 4K IP KVM device.

1.2 Standards

The Avocent ADX IPUHD 4K IP KVM device shall be designed in accordance with the application sections of the current revision of the following documents. Where a conflict arises between these documents and statements made herein, the statements in this specification shall govern.

1.3 System Description

1.3.1 Design requirements

1. PoE power Input:

The Avocent ADX IPUHD 4K IP KVM device shall provide the option using Power Over Ethernet as a means for provide power to the unit.

2. External power supply:

The Avocent ADX IPUHD 4K IP KVM device shall provide a secondary means of power such as an external power supply.

3. 2 x 1G Network ports:

The Avocent ADX IPUHD 4K IP KVM device shall provide two network ports one with PoE and the second port as a passthrough port to connect to a service processor.

4. Micro USB port:

The Avocent ADX IPUHD 4K IP KVM device shall provide a Micro USB port for local configuration of the unit, alternatively this port shall be used for serial access to devices.

5. Native USB-C:

The Avocent ADX IPUHD 4K IP KVM device shall provide a native USB-C port for video, keyboard, mouse, and audio from the target device its managing.

6. Cooling fans:

The Avocent ADX IPUHD 4K IP KVM device shall provide a built-in cooling fan for the unit.

7. Video adapters:

The Avocent ADX IPUHD 4K IP KVM device shall provide video adapters for HDMI, Display Port, and Mini Display port.

8. Reset button:

The Avocent ADX IPUHD 4K IP KVM device shall provide a reset button to reset the unit to factor default settings.

9. LED lights:

The Avocent ADX IPUHD 4K IP KVM device shall provide at least two LED lights to indicate power and data activity. Additionally, these lights should allow to remotely locate the unit by flashing.

1.3.2 Performance requirements

DC input

1. **Voltage:** The Avocent ADX IPUHD 4K IP KVM device shall have an input voltage of 5V and 5amps.

1.4 Environmental Conditions

1. Ambient temperature:

- **Operating:** The ambient temperature range, when Vertiv™ Avocent® ADX MP1000 management platform is operational, shall be from 32°F to 122°F (0°C to 50°C). There shall not be any degradation in the performance when operating in this range.
- **Storage:** -4°F to 158°F (-20°C to 70°C).

2. **Relative humidity:** The humidity shall be 10% to 80% with 29°C maximum dew point.

1.5 User Documentation:

The Avocent ADX IPUHD 4K IP KVM device system shall be supplied with Safety Instruction and Warning Sheet, and printed copy of quick install guide. The user manual shall be downloaded from the web and includes, a functional description of the equipment, safety precautions, illustrations, step-by-step operating procedures, and general maintenance guidelines.

1.6 Warranty

The Avocent ADX IPUHD 4K IP KVM device manufacturer shall warrant the device against defects in materials and workmanship for two years. The no-hassle replacement warranty shall include shipping costs to the customer site for the new replacement unit and shipping costs from the customer site for the return of the failed unit. Optional one-, two-, and four-year uplifted maintenance shall be available from the manufacturer.

1.7 Quality Assurance

1.7.1 Factory testing

Before shipment, the manufacturer shall fully and completely test the system to ensure compliance with the specification.

1.8 Security

1.8.1 Secure boot

The system shall provide signed firmware with the manufacturer keys. This signature shall be validated at the time of boot to ensure the firmware is valid.

1.8.2 Encryption

The system shall use TLS1.3 with AES-256bit encryption and shall only use encrypted communication between the end user this device or between the manufacturer provide devices.

1.8.3 FIPS 140-2 Support

The system shall provide FIPS 140-2 cryptographic module support. The system shall allow the FIPS mode to be turned On/Off.

2.0 MANAGEMENT FEATURES

2.1 Authentication

The system shall provide AD/LDAP as well as local authentication options.

2.2 Authorization

The system shall provide a means to restrict user access to devices and what operations they can perform. These permissions shall be enforced in the system.

2.3 Remote Sessions

The system shall provide means to launch remote sessions such as KVM or Serial using HTML5 based UIs.

2.4 Shared Sessions

The system shall provide the means for multiple users to share sessions on the same device. The session sharing shall allow for passive sessions, Active, Stealth.

2.5 Administration

The system shall provide the means to define users, authentication, authorization.

2.6 Audit Trail and Logs

The system shall generate events for any user activity and provide access to logs.

2.7 System Settings

The system shall provide the ability to configure the system settings such as time, time zone, session timeouts.

2.8 Port Settings

The system shall provide the ability to configure the network and serial port settings.

2.9 RESTful APIs

The system shall RESTful APIs to integrate with the product.

2.10 Firmware Updates

The system shall provide the means to update the firmware on the device.