Vertiv™ Avocent® ADX Ecosystem

A Scalable, Resilient, Extensible Ecosystem For Your Ever Changing IT Management Needs

Manage and Control All Your Data Center and Edge Devices

Market forces are accelerating data center demands and the race to the edge. In fact, 46% of all organizations have increased their investment in their hybrid cloud infrastructure. They've done so to enable remote workforces, scale digital services and push computing resources closer to users. As entire industries have virtualized, organizations like yours are processing data-intensive workloads that just won't let up.

Now, 5G wireless is here and is coming into data centers. It will increase speeds by a factor of 10X, enabling processing of vast amounts of edge data with minimal latency. That makes it possible for you to power Internet of Things (IoT) applications and capitalize on automation and analytics driven by artificial intelligence (AI) and machine learning (ML) more easily.

In addition, your employees may need secure remote access to critical business applications to perform critical duties, in industries as various as banking and trading, security, technology products manufacturing, or video game development. You'd like to provide your staff with 4K video resolution to avoid work and eye strain and keep their productivity and morale high. At some companies, employees also test IT equipment remotely. They need to securely manage and control devices, enable session sharing and use automated processes to speed work.

Empowering IT to Keep Pace with Digital Demands

Ongoing growth has taxed your IT team. You're grappling with more demand, devices and digital imperatives. You'd like to reduce IT complexity by automating processes, simplifying toolsets and adopting open standards for your platform. You'd also like to empower certain users with secure remote access to critical business applications so they can perform their duties without work or eye strain. However, you're struggling with:
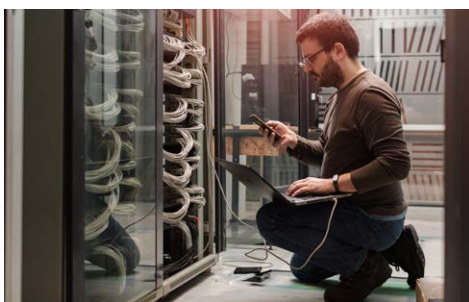
The Platform to Manage All of Your Devices

Vertiv™ Avocent® ADX Ecosystem is a vendor-neutral platform that you can use to access and manage all your devices, including:

- Servers, service processors, and virtual machines

- Routers, switches, firewalls and storage devices

- Flexible and Scalable Deployments

"Worldwide spending on edge computing is predicted to reach $250B by 2024. Growth is so torrid that it could reduce public cloud growth by five points."

Source: IDC/Forrester

Scalable

Scale current management solutions as your enterprise data center and edge computing demands grow.

Resilient

Always on, always available secure remote access management solution is needed in todays modern IT world.

Extensible

Keep pace with ever changing market needs with an open standards platform and APIs.

An Overview of Vertiv™ Avocent® ADX Ecosystem

As you expand your edge capabilities, Avocent® ADX Ecosystem grows with you. Upgrade and add more devices as business demand increases, while securely enabling remote workers with business application access across key functions. Improve your business continuity with a future-proof approach based on open standards. Whether you're managing large data centers or containerized data centers, IT closets, server rooms, test labs, cell towers or more, Avocent ADX Ecosystem will bring clarity and control to your IT organization. The Avocent ADX Ecosystem includes:
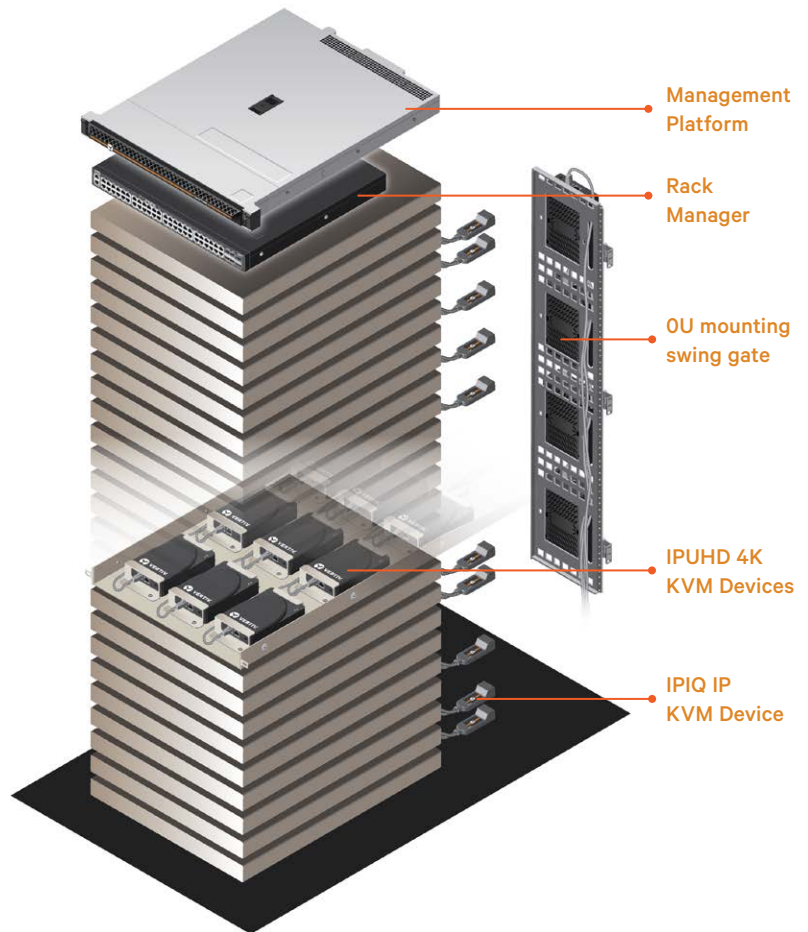
Management Platform

The management platform enables secure remote monitoring and control for IT infrastructure, allowing infrastructure managers to capitalize on automated processes and streamline their continually expanding duties.

Rack Manager

The rack manager physically connects to interface modules, or directly to service processors, rack PDUs or network equipment. It provides PoE, IP consolidation, and network address translation.

Interface Modules

Interface modules connect to the aggregation appliances and to the end target. These IP-based devices are either KVM devices or serial modules.

Management Platform

Rack Manager

0U mounting swing gate

IPUHD 4K KVM Devices

IPIQ IP KVM Device

Embedded Linux Firmware – Vertiv™ Avocent® Core Insight

Avocent® Core Insight firmware is a family of embedded Linux packages that includes a commercial-ready implementation of the OpenBMC project for baseboard management controllers (BMCs). The firmware is highly modular and scalable, enabling your team to improve operational efficiency. It also includes premium enhancements for added security, performance and functionality.

How Vertiv™ Avocent® ADX Ecosystem Increases Your Clarity and Control

As your organization increases its emphasis on digital solutions, you need a holistic approach to IT monitoring and management. Your IT team needs to work productively, deliver consistently high service and minimize the potential of any service disruption that could harm the business. Avocent® ADX Ecosystem helps you:

- **Automate configuration processes:** Use Avocent ADX Ecosystem to increase your agility by automating device management processes and shortening their deployment times. Automate such items as configuration changes and status reporting. Save time, improve efficiency and use your talent on higher-value tasks to drive ROI for your business.

- **Ensure infrastructure resilience:** Leverage the always-on, always-connected out-of-band Avocent ADX Management Platform to rapidly recover from any outages, especially at remote sites. By using cellular capabilities, you can always connect to your customers' equipment and restore service, even when Ethernet is down or doesn't exist.

- **Enhance security of your IT infrastructure**: Prevent unauthorized access to specific devices and tightly control the operations authorized users can perform on them. Receive security updates on an ongoing basis.

- **Improve your ability to scale solutions**: Scale your solutions and costs effectively with Avocent ADX Ecosystem, meeting your organization's demand for new enterprise capabilities and edge sites.

- **Enable virtual machine sessions:** Launch remote VM sessions from Avocent ADX Ecosystem. Enable approved users to access applications securely, while auditing remote access to further enhance security.

- **Deliver exceptional video performance:** Support remote workers' need for high-quality 4K (3840 x 2160) video resolution at 30 hertz (Hz) refresh rates. Enable staff to securely access on-premises applications and perform at peak levels without eye or work strain.

- **Gain high availability of your management appliance:** There's no need to take management solutions down for updates. Update features and functionality while you are using the platform.

- **Use open-source management tools:** Use the Avocent ADX Ecosystem to manage and control your heterogenous infrastructure, including OpenBMC and Redfish devices. Modernize and standardize service processor management to reduce complexity.

- **Consolidate IP addresses:** Use our aggregation appliance to assign IP addresses to IP modules, independent of customer networks. Conserve your IP addresses, while reducing the overall total cost of ownership (TCO).

- **Use modern connectors:** Flexibly support a variety of connectors, including HDMI, VGA, USB-C and display ports. Reduce unnecessary IT equipment, while managing all of your customers' devices more easily.

- **Meet customer demand for firmware access:** Meet customer requests to provide open firmware access with a secure, hardened OpenBMC-based solution (ACI technology).

Get Ready for Growth

You've already seen how demand for data center resources, edge computing and remote access to business applications is growing. Get ready for the next wave of innovation by deploying Avocent ADX Ecosystem, a secure, scalable platform to manage all your devices. Free your IT team to do its best work with real-time visibility, automated processes and open-source tools that enable staff to respond to business needs and support ongoing growth. Empower other employees to add value to the business by securely accessing and using critical applications, while managing and monitoring their usage.

Get started with the Avocent ADX Ecosystem today.