Aurora

HARRISBURG UNIVERSITY
OF SCIENCE AND TECHNOLOGY

HU Taking eSports and SDVoE™ AV over IP Integration by STORM!

10G SDVoE™ AV over IP Integration Transports eSports Gaming to a Near Seamless Video Wall Canvas

The **Client**

Harrisburg University of Science and Technology is a private institution located in downtown Harrisburg, Pennsylvania. The University provides Science, Technology, Engineering, and Mathematics focused curriculum (STEM). Accredited in 2009, Harrisburg University offers STEM specific bachelor's, master's, doctoral degrees and certificate programs.

As a member of the National Association of Collegiate eSports (NACE), Harrisburg University has fully embraced the rise of collegiate eSports with their world-class one-and-only varsity team – the Harrisburg University Storm. To further bolster their program and team, a future-proofed practice facility was proposed to ensure continued success. This next-level center would allow players to practice competitive gaming in an environment that is tailor-made for the fast-paced on-line gaming world.

The **Challenge**

The 2,300 square-foot training facility required a user-friendly system to transport AV signals from multiple gaming stations to a large video wall for team members and faculty to successfully practice and collaborate. With a relatively close viewing distance, the installation needed to be clean and seamless without any display issues or distractions that may potentially impact gameplay during training.

To eliminate the need for any extra hardware, simplify ordering and troubleshooting, a distribution solution with integrated signal processing, scaling and routing was needed to control and support the installation. To ensure the system would handle the high resolution frame rates of simultaneous gameplay and offer zero-frame latency, only a SDVoE™ 10G system would handle such demanding requirements to support the graphics intense gameplay.

The **Solution**

Working with both Harrisburg University's faculty and selected manufacturers, New Era Technology was engaged to design and develop the unique space centered around a video wall system and supported by an 10G SDVoE™ AV over IP solution. To fulfill the facilities video wall requirement, a 17 panel Barco UniSee wall was utilized. The bezel-less panels created a near seamless display of the fast-paced action. The flexible configuration allowed the players and faculty to display exactly what they wanted to see on the wall and automated calibration ensured consistent image quality throughout all training sessions.

Aurora Multimedia's IPX series SDVoE™ 10G AV over IP solution was chosen to fulfill the distribution requirements for this unique application due to its exclusive design and features. 39 IPX-TC2 transceiver boxes and 4 IPX-TC3-WP transceiver wall plates were utilized in the facilities installation. The 10G SDVoE™ AV over IP solution with zero-frame latency met the demand to handle the high resolution and frame rates of fast-paced gaming sessions. The Transceiver design itself allowed devices to be configured as encoders or decoders simplifying setup and troubleshooting. Other features such as integrated video wall processing/scaling/routing, the Dante™ digital audio option to support the gaming stations, PoE (power over ethernet) for powered network devices and the exclusive IPX series IPBaseT® management software for device control made for the ultimate eSports facility distribution solution.
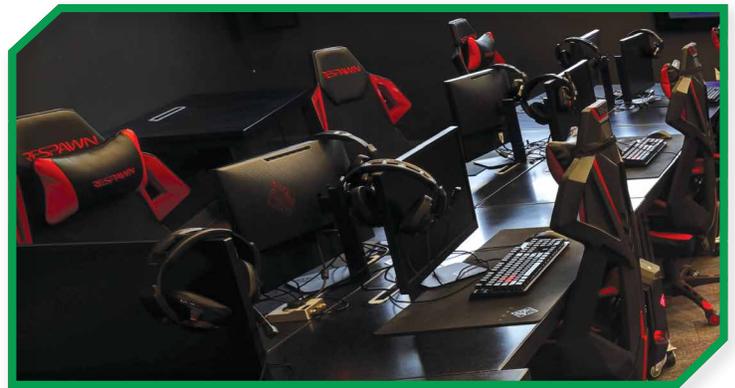
Gaming Stations connected to the IPX series distribution system transports AV to video wall and sound system.

iPX-TC2-F

iPX-TC2-C

iPX-TC3-WP

Aurora IPX Series SDVoE™ 10G AV over IP Solutions

Aurora's IPBaseT® combines a variety of 4K IP technologies and features under one unified protocol using a simplified topology. Uncompressed video with zero-latency, visually lossless video with low latency, seamless switching, video wall and multiviewer modes, digital audio, USB 2.0, Ethernet, and control are just some of the core capabilities of IPBaseT®. Utilizing the bandwidth of a standard 1Gbps copper (VLX Series) or 10Gbps copper or fiber (IPX Series), IPBaseT® supports large scalable audio/video matrixing, and it does so while replacing multiple technologies and products with a "single-box" distributed platform. The days of needing a separate AV switcher, control system, video wall processor, audio/DSP converter, and more are a thing of the past!

Aurora Multimedia

Aurora Multimedia products incorporate state-of-the-art technologies that surpass typical specifications and features. Our history of innovation – from the introduction of the industry's first non-proprietary, Web-standards-based IP control systems and touch panels, to today's advanced HDBaseT™ and IP video distribution solutions – has made us a dominant force in the AV industry. Advanced AV processors with scaling, multi-image rotation, and dual/quad display processing only add to our highly adaptive, diversified product line. Aurora Multimedia provides solutions for a variety of global markets, including government, education, security, hospitality, corporate, and house of worship.

Get In Touch

Aurora Multimedia offers a complete line of AV over IP solutions and more. To find out how your business can benefit from Aurora's state-of-the-art technologies, please contact us today.

Aurora Multimedia Corp. Headquarters located in Morganville, NJ, USA