

Case Study

HDBaseT at the Head of the Class



End Customer: GateWay Community College
Vertical: Education



About the End Customer

Approximately 13,000 students are enrolled at GateWay Community College in Phoenix, Arizona, which is part of Maricopa Community College District – the largest community college district in the United States.

The Challenge

Recent expansion and upgrade plans for the college included a new Integrated Education Building (IEB) and a remodeling of its Maricopa Skill Center (MSC) campus to incorporate state-of-the-art audio/visual and IT classrooms that would allow students and faculty access to digital AV and HDCP content using both digital and analog devices. The administration stipulated that efforts should be made to simplify the related installation, operation and troubleshooting activities in an effort to reduce reliance on the college's technical support staff. Additionally, the customer hoped to reduce the size and cost of lectern-to-projector cabling.

The Solution

The college's AV team selected a slim lectern that houses a built-in PC and document camera and has a flip-top for a laptop computer. It also contains the core of the classroom AV system, the Kramer VP-729 ProScale® digital scaler/switcher and Kramer TP-573 and TP-574 DGKat™ twisted pair transmitters/receivers for HDMI, bi-directional RS-232 and IR signals. Each room features AMX control, motorized screens, LCD projectors, microphones, audio amplifiers and IP cameras.

The conference rooms use the VP-729 at the core, with the addition of video-conferencing equipment and a 60- or 70-inch display. The multi-purpose rooms use the same configuration, and also include a Kramer VS-66HDCPxI 6x6 DVI Matrix switcher, TP-581T/582R HDBaseT twisted pair transmitters/receivers and FC 46xI audio de-embedders.

Results

The dual design goals of operation simplicity for the end user and configuration uniformity for all rooms were achieved. HDBaseT is a key technology in the configuration, as it simplifies signal transmission/reception while reducing cabling hassles.

About HDBaseT

HDBaseT technology, powered by the Valens chipset, enables all-in-one connectivity between ultra-HD video sources and remote displays through a single 100m/328ft CAT6 cable or fiber, delivering uncompressed high definition 4k video, audio, USB, Ethernet, control signals and up to 100 watts of power.