

Remote Server Management

Black Box advances communications to a higher level.

Major Challenge:

Providing sophisticated yet economical video surveillance for a university's DoD-funded research program.

A technical college was building a new state-of-the-art, eight-bay garage for its automotive engineering school. In addition, an adjoining building underwent remodeling to provide automotive students with a computer lab and classroom space for traditional instruction.

The technical college planned to have a remote workstation in each bay that could be used for diagnostics, schematics, and searches for recommended parts. The remote station would be connected back to a local station and CPU in the classroom where students and instructors could "talk shop" about hands-on training. Black Box Network Services performed the ideal network installation. Take a look at the details **below**.

Complete solutions from one source — that's what Black Box Network Services is all about.

The Details:

Knowing that problems would result from running copper through an industrial environment, our experts chose a fiber optic solution, starting with ServSwitch™ DVI/VGA Fiber Extenders (see the diagram **below**). Eight sets of extenders are used to connect workstations on the garage floor back to workstations in the classroom.

Each set of local and remote extenders is connected via fiber optic cable, which is immune to the noise and EMI/RFI that are prevalent in industrial environments, such as a garage. In each garage bay, a workstation is connected to the remote fiber extender unit. In the classroom, another workstation is connected to the local fiber extender unit. A second local connection is then made to the CPU.

For security, Black Box stored all local CPUs in a server closet, safe from industrial elements, tampering, and theft.

The DVI/VGA Fiber Extenders are perfect for automotive diagnostics and schematics that demand exceptional image quality, and their use has proven invaluable for the next generation of computer-savvy auto mechanics.



The components

- (8) ServSwitch DVI/VGA Fiber Extenders (**ACS253A-MM**), which each include:
 - (1) local extender
 - (1) remote extender
 - (2) power supplies and cords
 - (2) DVI-I male to VGA HD15 female adapter cables
 - (1) DVI-I female to VGA HD15 male adapter cables
 - (1) 3-in-1 PS/2™ DVI cables to CPU
- 600 feet of multimode fiber optic cables, SC-SC (**EFN110**)

Station-to-station fiber extension and security

