

Atrust m320 Windows® MultiPoint® Zero Client Successfully Improved Learning Environment for Over 200 Schools in Bulgaria



Customer Overview:

Like many around the world, these schools in Bulgaria were equipped with traditional PC desktops and the endless maintenance problems that come with them. In order to manage these computers, school IT personnel is forced to constantly deal with unexpected data loss, accidentally downloaded viruses and other malfunctions. The staff spends endless amount of time on fixing problems.

Challenge:

Technology is now an integrated and necessary part of education. It is important to provide a reliable and secure computing environment for students to learn and grow. Teachers need to be able to easily manage what students are doing in class and to reduce illegal downloads. While students need to have a reliable backup system to save their work and avoid losing hours of work due to malfunction. The challenge for this project is to look for a complete system that can reduce the time and resources spent on maintaining an IT system.

The Bulgarian education ministry had signed the IKT project and the entire IKT project plans to let 600+ Bulgarian public schools to renew and improve the teaching and learning classrooms with Windows® Multipoint® platform. The project set the goal of providing an affordable and complete solution that will allow teachers to easily control the lesson, allow each student a personal computing experience and let IT staff to securely manage all the files. It is important to provide an optimal learning environment. The solution also must meet the school's budget to allow a smooth and affordable transition.

Solution:

Atrust team and partners set out to provide a system that will meet the needs of the schools and provide students a great learning environment. After testing and demonstration, the schools were impressed by the performance of Atrust [m320](#) zero client with Windows® Multipoint® Server 2012 operation system.

Atrust [m320](#) is a small and affordable device that can easily fit in any classroom. It is designed especially for shared-resource environment, user can easily access to the host server and work as individual computer. This provides an extra layer of security from theft, virus or computer malfunction. No matter what happens to the local device, all information is safely stored on the host server.

The set up process was extremely simple. The device itself just needs to be connected to a monitor, keyboard and mouse. After connecting the server and each device, a complete and secure system is ready to go. Students are able to access only the resources they need from the server, greatly reducing the amount of power wasted. Windows® MultiPoint® Server also comes with an easy-to-use management software, allowing the teachers to have direct access to each device in the classroom. Window® MultiPoint® Server 2012 delivering the truly Windows® 8 experience with maximum efficiency through Atrust [m320](#).

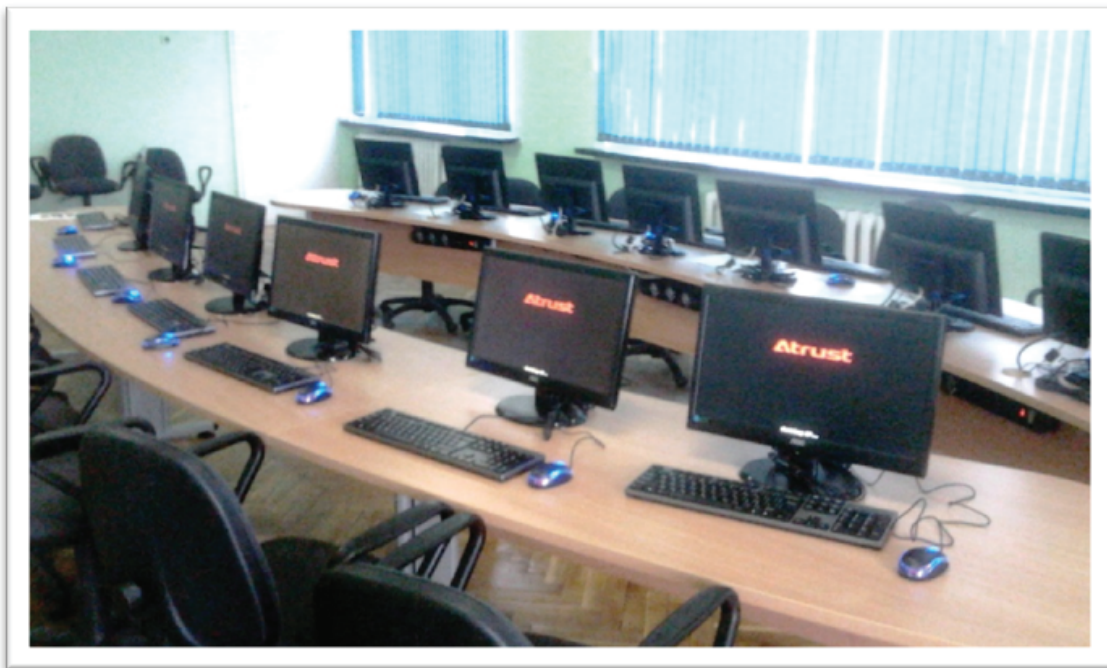
At the end of the project, the local sales director responded with enthusiasm, “It is a very, very big success for us and Atrust. Atrust [m320](#) zero client helped us a lot for this. Thank you!”



Result

The project was a big success. Atrust and partners were able to set up this solution more than 200 schools nationwide just in the year 2013 alone. This totaled up to 3,300 units of **m320** and 250 units of Atrust **t60** thin client. It is expected that by the end of the project, this solution would be running in 230 schools around the country.

The result was well received by the users. The local sales director said, “I think that the business with terminals will develop more and more. There are other clients that can become interested in Atrust products thanks to these schools.”



Atrust m320 - Windows MultiPoint Zero Client

Atrust **m320** is a zero client designed as an endpoint of a shared resource system, such as a MultiPoint® Server or Useful® Multiplatform system. The solution enables a host server to power multiple and independent stations.

Each station only consists of one station hub (zero client) with a keyboard, mouse, and monitor connected, allowing multiple users to share the computing power of one single server. Simply through an Ethernet connection, the server provides each station user with a familiar and independent Windows experience.

Advantages

Atrust thin client and zero client devices play a significant role in educational sector. Atrust thin and zero client devices are:

- Easily used in classrooms, administration offices, and different types of host environments
- Protection against manipulation destructive viruses and spyware
- Able to support multimedia teaching and training software tools
- Cost effective, reducing the total cost, including energy cost, gradually
- Noiseless design with smaller footprint and lower heat load

Specifications

Windows MultiPoint Zero Client - m320	
Processor	SOC SMSC UFX6000
Max Resolution	1920 x 1080
Video Output	VGA-type (D-sub 15)

Specifications

I/O Ports	Front: 2 x USB type A, 1 x Headphone, 1 x Microphone Rear: 2 x USB type B (for mouse and keyboard), 1 x VGA, 1 x RJ45, 1 x Kensington lock, 1 x DC IN
Host Connection	10/100/1000Mb
Dimensions	(W) 120 x (D) 80 x (H) 26 mm
Weight	158g (approx.) without AC adaptor
Output Voltage	+5V DC
Server OS	Windows® Multipoint® Server 2012 Useful® Multiplatform 6.0

About Atrust:

Established in 2007, Atrust is a creative, professional, and enthusiastic team which has rich experience in designing, producing thin client, server and management software. The objectives of Atrust are to provide customers with high quality, high efficiency and environmental friendly products as well as comprehensive solutions.