



# SCHOOL SOLUTIONS

## Data, Voice and Video Distribution

Internet has to be accessible from any classroom?

It is not possible to lay down additional networking cables without upsetting school infrastructure and disrupting classes?

Capacity must be high enough to serve parallel information streams within and between classes?

Should your networking solution support streaming of real-time educational media, in addition to data-traffic?

System stability and reliability are key requirements?

LAN-Services shall be provided among students, teachers and school administration?

The network has to be secure in a way to completely separate administrative information from educational use as well as against external influence?





## CURRENT covers all your requirements!

CURRENT Technologies International GmbH's Powerline solution will be installed within the school building. A head-end (API-2000-GW or API-2000-HE) that centrally controls the entire powerline network is installed close to the main electricity distribution board. Access to the backhaul network (through the head-end) maybe provided via existing DSL, Cable or Fiber installations.

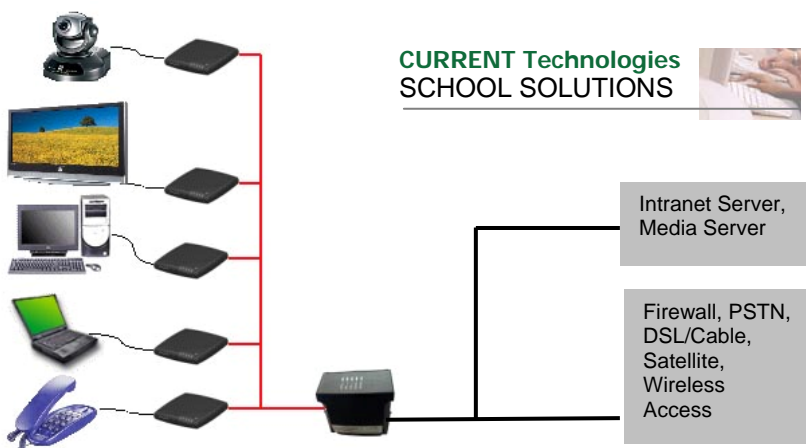
Inside each classroom a Powerline modem (APx-2000-xx) is ready to provide connectivity to either a single computer or via a switch to several computers. Standard analogue phones or modern IP phones can be connected in addition for example in teachers or administration offices.

At the end of a class, if teachers need to carry the IT infrastructure to their new class, they can also carry the PLC modem along. Simply plugging the modem in new class would put the computer online; no additional overheads are required for connectivity in a different room/class.

Value additions in the form of school intranet and document/information servers can be easily provided without any additional installation or maintenance overheads. It is also possible to enable voice communication for administrative staff by interfacing the head-end with a VoIP gatekeeper. Additional services such as video surveillance or information screens can be provided from anywhere in the building via a basic Powerline modem (APx-2000-xx).

All devices can be managed from remote with standard management tools. Inside the building different VLANs can be provisioned to separate for example school administration network, teacher network and educational networks.

Our local partners close to your school facilities provide the installation, service maintenance and support.



### Benefits

- Data rates of up to 205Mbps from any classroom room and any power socket
- Connectivity for all classrooms and school administration
- Easy mobility of modems across classes.
- Easy integration with standard IT and telephony infrastructure
- No EMC related health issues compared to other technologies
- Video on Demand support to allow streaming educational content from local servers
- Privacy and security for administration traffic through encryption and authentication
- VLANs to separate different user groups, school administration and educational networks.
- Connectivity for any additional network device such as surveillance cameras, information screens, surfstations, network printers etc.
- No additional cabling. Uses existing electricity cables
- Cost efficiency compared to alternative networking technologies.
- Local technical support and service partners
- Practically zero maintenance overhead

### Your local reseller:

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