GigE Wireless Solutions for Education Applications
With thousands of GigE links installed, BridgeWave is today’s leading provider of high-capacity wireless solutions to over 120 education institutions across the United States and Canada.
A Sample of BridgeWave’s Education Users
Higher Education Campus Connectivity

- Fiber capacity to every building?
- Gigabit wireless goes where fiber doesn’t reach!
Challenges:
- Severe weather hindered network connections
- Limited connectivity in times of disaster
- Costs of $2M for fiber exceeded budget

Benefits:
- Reliable, uninterrupted campus connectivity
- Complete disaster recovery strategy
- 256-bit AES provides highly secure transmission

“BridgeWave’s AR60X links not only provided a solution to our previous network vulnerabilities, but also served as a ‘future-proof’ disaster recovery solution.”

- Ed Kiefer
  Manager of data networking, Cornell University
Challenges:

- Integrate nine buildings on two campuses
- Impending fiber connection price increase
- Maintain Service Level Agreements

Benefits:

- Complete ROI in less than 8 months compared to fiber
- Ultra-low latency for VoIP & video

“We are so happy with our original four gigabit wireless links that BridgeWave's GE60s have become our standard for connecting new buildings.”

- Yves Hébert
  CIO, George Brown College
**Challenges:**
- Provide gigabit service to off-campus partner
- $600K for fiber connection too costly
- Needed low latency for VoIP and video

**Benefits:**
- Reliable network backbone connection
- Connection ready in days, not months

"Not only did BridgeWave’s AR60X product save us a substantial amount of time and money, it also provided more network capacity than competing solutions."

- Antonio Cerrera
  Network Project Manager, Arizona State University
The performance of BridgeWave’s gigabit wireless links has been seamless, without any additional OPEX costs, and with very little support needed from our IT staff.”

- Dick Rader,
  Director of Telecommunications, Coppin State University
Challenges:
- Swiftly provision high-speed connections to relocated outpatient clinic
- $500K fiber installation was well out of budget
- HIPAA compliance

Benefits:
- Immediate gigabit connectivity
- ROI in 5 months
- Secure, reliable transfer of sensitive patient information

“We have already saved $200,000 by using BridgeWave’s GigE solutions instead of fiber. BridgeWave allowed us to stay under budget with low operating costs for high-speed connections and functionality.”

- Eric Schoedel,
  Voice Manager, Rush University Medical Center
**Challenges:**
- Quickly provide services to staff moving to new leased offices
- Need gigabit capacity for programmers preparing for a large PeopleSoft implementation

**Benefits:**
- Fiber-like performance without the cost and delays

“...we realized BridgeWave links provide fiber-equivalent connectivity at a fraction of the cost...and we’ve been pleased with the results.”

- Dick Bednar,
  Sr. Director of Information Technology, CSU Fullerton
Challenges:
- Connect campus buildings to core fiber network
- FSO impractical due to fog

Benefits:
- Quick and easy installation
- Limitless bandwidth
- No recurring lease-line charges

“…bringing up the link was literally a ‘point-and-shoot’ operation. The link has performed perfectly ever since.”

- Jason Hernandez
Sr. Network Infrastructure Architect, Seattle University
A Sample of BridgeWave’s Education Users
K-12 School Connectivity

- VoIP, data, Internet connections
- Efficient “ghosting” student desktops
- Information sharing
- Research
- Video-in-classroom
Challenges:
- Deliver high-capacity connectivity to rural elementary schools
- Severe weather hindered network connections

Benefits:
- Gigabit speeds provide future-proof bandwidth
- ROI in 6 months

"With BridgeWave, our schools now experience highly reliable, seamless network connectivity. A solution that supported our entire network and one that was scalable to accommodate future applications was a real win."

- Tony Brancich, Director of Technology, Deer Creek School District
Quinlan Independent School District

- **Challenges:**
  - New intermediate school needed connectivity
  - Poor results using 2.4/5.8 GHz links
  - Needed to consolidate servers

- **Benefits:**
  - High-performance gigabit speeds
  - Reliable connectivity
  - Less expensive than fiber
E-Rate and BridgeWave

**E-Rate Program:**
- Federal subsidy (20% - 90%) on:
  - Phone lines, data lines, internet access, internal connections
  - Significant dollars for schools with high free/reduced lunch eligibility
  - Priority 1
  - Telecommunication services & Internet access
  - Priority 2
  - Internal connections & basic maintenance

**BridgeWave:**
- Falls under Priority 2 as:
  - Wireless WAN devices
  - Wireless Internet devices

http://www.bridgewave.com/solutions/erate.cfm
BridgeWave.....chosen by:

Seattle University

Quinlan School District

Rush University

Crane School District
Leader in gigabit wireless solutions
   Thousands of GigE links installed

Specializing in 60–90 GHz bands
   Multi-GHz allocation
   Multi-gigabit services

Wireless alternative to fiber:
   Performance
   Security
   Reliability
   ... without the costs and delays
Leased lines too slow...too costly?

- Own your own gigabit wireless backbone
- Full GigE capacity
- ROI in months
Fiber vs. GigE Wireless 3-year Costs

Break even under 12 months!
Why BridgeWave?

- Full gigabit data rates
- Rapid deployment
- Future-proof capacity
- No leased-line costs
- Highly secure
- Total network control