



Communications Made Real



Ruckus Wireless in Education

A Normal Day

It's the start of a lesson and 30 pupils using laptops are engaged and ready to learn. Walking down the hallway, the site manager has taken a call from a colleague on a mobile device. Outside, pupils are using iPads to report on a science experiment and in the staff room, a teacher is inputting grades into SIMS. A meeting room is being hired out and visitors are accessing the internet. At lunchtime the children queue up and pay for lunch using their RFID cards and can access permitted websites using their own personal mobile phones. All are connected, managed and monitored using a Ruckus Wireless Network.

Benefits

- Reliable and fast coverage
- High and low density AP's
- Robust network management with performance tools
- Simple guest management for BYOD
- Patented 'Best Signal' Routing
- Stable device connections
- Advanced Wi-Fi security
- Outdoor, point to point bridge and mesh technology
- 5 year support package

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Why Ruckus?

Ruckus delivers high performance and reliability at an affordable price point. Its scalable, mix and match Access Point design supports a range of deployments to suit different requirements.

Ruckus can be used for voice, data and video in high density environments such as lecture halls, vast locations such as fields, as well as tightly packed classrooms in challenging building layouts.

The Ruckus systems boast flexible, standalone or controller based deployments with simple configuration and management through a web based wizard.

Ruckus antenna technology gives a 2x to 4x increase in Wi-Fi signal coverage, minimising the number of AP's required and giving users the highest throughput.

Patented BeamFlex Technology improves the stability of device connections, which is especially important when using devices like iPads which frequently change orientation.

Elegant Guest Management that can be set up by non IT staff and rich user access policies on WLAN control ensure data security and easy configuration.

The Ruckus APs also draw less power than many other models reducing the necessity for expensive switches.

Why VSL?

We know schools. It's as simple as that.

VSL has worked with hundreds of schools supplying communications and wireless solutions and has overcome the many challenges that comes with the education sector.

VSL provide a complete solution; from the initial consultation, surveying and design, installation, training and commissioning, as well as ongoing support.

VSL are Ruckus RCNA certified and hold current industry networking qualifications. More importantly, VSL will provide you with references from schools we have continued to do business with year after year.

High performance, flexible deployment, optimised services, Ruckus delivers all that a school could ever need from their Wi-Fi system.

Ruckus ZoneFlex Access Points

R310



- Two-stream MIMO 2x2:2
- Concurrent dual-band (5GHz/2.4GHz) support
- Up to 4dB of statistical BeamFlex gain and up to 10dB of interference mitigation
- Capable of supporting up to 100 clients per access point
- Up to 2x to 4x increase in Wi-Fi signal coverage
- Automatic interference mitigation to deliver consistent, predictable performance at extended ranges

R510



- Two-stream MU-MIMO 2x2:2 for simultaneous downlink transmissions to multiple Wave 2 client devices
- Concurrent dual-band (5GHz/2.4GHz) support
- Up to 4dB of signal-to-interference and noise (SINR) improvement and up to 10dB of interference mitigation
- Capable of supporting up to 512 clients
- Novel channel selection approach delivering up to 50 percent capacity gain over alternative background scanning approaches

R710



- Up to 2 times extended range and coverage with Ruckus BeamFlex technology: up to 6 dB of signal-to-interference and noise (SINR) improvement and up to 15dB of interference mitigation
- Ultra-reliable mobile device connectivity with BeamFlex+ dual polarized adaptive antennas
- Automatic interference mitigation, optimized for high-density environments
- Capable of supporting up to 500 clients

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