



Wireless LAN Switch

OVERVIEW

Extricom's Wireless Switch is a central component of its patented Interference-Free™ architecture. This unique architecture completely avoids co-channel interference, overcoming one of the principal limitations of traditional wireless LAN (WLAN) systems. The need for cell planning and RF site surveys and maintenance, is thus eliminated, and the result is a WLAN infrastructure that delivers optimal capacity and complete coverage, with zero-latency roaming. A WLAN that is perfectly suited for any combination of data and voice applications.

Extricom's Wireless Switch is connected to the wired LAN and to UltraThin™ Access Points (APs), densely distributed throughout the enterprise. The Wireless Switch is the only device in the Extricom WLAN that contains software; thus configuring the entire system deployment is as simple as configuring a single traditional AP using web-based management tools.

Extricom uses standard Wi-Fi protocols (IEEE 802.11) and standard Ethernet beyond the Wireless Switch. As a result, the Extricom WLAN is completely client-agnostic and supports any standard, off-the-shelf client network interface card (NIC). APs are connected using standard Category-5 Ethernet cabling and powered by standard-compliant IEEE 802.3af Power over Ethernet (PoE), therefore, no modification to the enterprise cabling is required.

FEATURES AND BENEFITS

No Cell Planning

No RF deployment and maintenance costs:

Extricom's patented Interference-Free™ architecture requires no cell planning and allows ubiquitous placement of UltraThin™ APs wherever convenient. There is no need for RF site surveys or maintenance, significantly reducing the cost of deploying and owning an enterprise-class WLAN.

Uplink AP Diversity

Complete high data-rate coverage:

Extricom's patented uplink AP diversity selects the best AP to process a client's packets on a per-packet basis. APs may be added at will, providing complete coverage while avoiding co-channel interference.

Wire-line Quality VoWLAN

A WLAN built for voice:

Extricom's patent-pending Interference-Free™ architecture is perfectly suited for VoWLAN applications, providing reduced latency and jitter and zero-latency roaming, QoS through voice and data separation, reduced power consumption, and higher RF resiliency. The result is superior voice performance.

Zero-Latency Roaming

Secure mobility:

In an Extricom WLAN, the client remains on the same channel throughout enterprise. Inter-AP handoffs occur without delays or packet loss, permitting a highly secure WLAN (using advanced encryption and authentication methods) without affecting user mobility.

Multiple Channels

Increased capacity and QoS:

Extricom's Interference-Free™ architecture provides multiple channels throughout the enterprise. The result is multiplied aggregate capacity, while allowing the separation of voice and data traffic, thus guaranteeing QoS.

TrueReuse™ – Optimum Frequency Reuse

Increased capacity and seamless scalability:

Extricom's patented TrueReuse™ technology dynamically optimizes frequency reuse to provide unparalleled capacity on every channel. Capacity is easily increased by simply adding more APs, thus providing seamless scalability.

WiFi Collaboration™

RF resiliency and redundancy:

Extricom's patent-pending WiFi Collaboration™ technology overcomes the difficulties of using RF for data networks. By placing multiple UltraThin™ APs on the same channel and making intelligent decisions at the Wireless Switch, an Extricom WLAN is very tolerant to RF instabilities and transparently provides network redundancy.

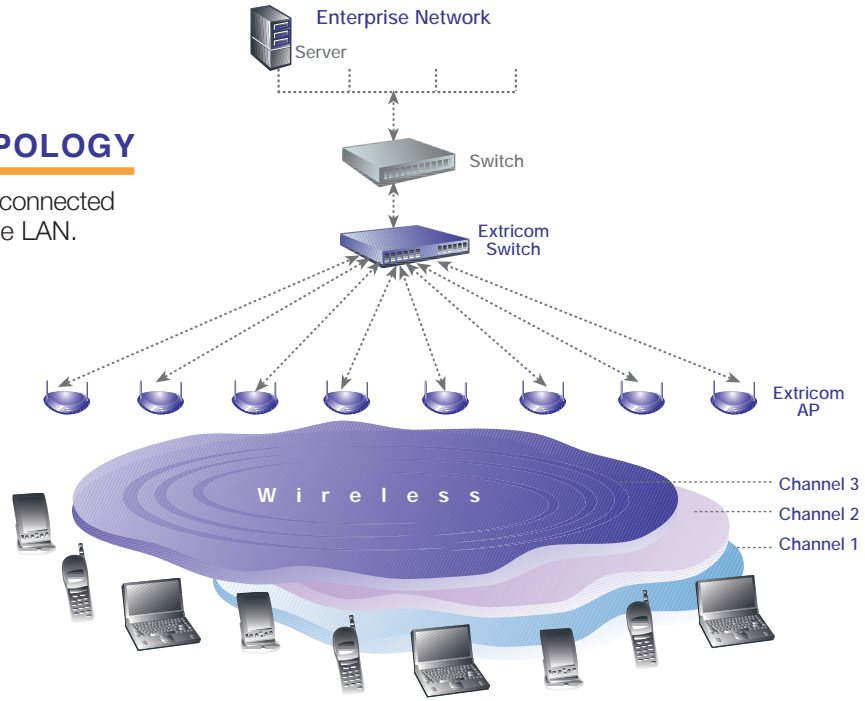
Dense AP Deployment

Reduced power consumption:

In an Extricom WLAN, users are always close to an AP. Hand-held devices are able to transmit at higher data rates (reducing transmission time), and transmit using lower power. The result is reduced power consumption for hand-held devices.

THE EXTRICOM EDGE TOPOLOGY

The Extricom Wireless Switch is directly connected to UltraThin™ APs, and to the enterprise LAN.



SPECIFICATIONS

Standards	
WLAN	IEEE 802.11a, 5GHz IEEE 802.11b, 2.4GHz (short/long preamble support) IEEE 802.11g, 2.4GHz (pure mode) IEEE 802.11i*
Ethernet	IEEE 802.3x, full/half duplex IEEE 802.1p*, priority tagging IEEE 802.1q, VLAN tagging
Interfaces	
APs	8x100BaseT Ethernet with IEEE 802.3af PoE (out of band, 6 wires)
Backbone	Auto-Negotiating 10/100baseT Ethernet
Wireless Performance	
Channels	Up to 2 simultaneous WLAN channels (regardless of band)
Capacity	Up to 108Mbps Aggregate WLAN data-rate (2 channel blankets, each with 54 Mbps)
Inter-AP handoff	0 ms
TrueReuse™ *	Up to 3 simultaneous links per channel
Management	
User Interface	Secure Web-based Graphical User Interface (GUI) Command Line Interface (CLI) and XML
Management*	SNMP and RMON
Logging	Remote and local SYSLOG
Upgrades	Firmware upgrade through Web or CLI, from anywhere in the LAN.
Security	
Privacy	WEP-RC4 WPA pre-shared key WPA-TKIP Michael AES* 802.11i and WPA2*
Authentication	802.1x (RADIUS) WPA pre-shared key WPA (RADIUS)

SSID & VLAN	
SSID	16 SSIDs per channel
VLANs	4096 Ethernet VLANs Priority tagging* SSID to VLAN mapping
Regulations Approval	
Safety	UL 60950-1 EN 60950-1 IEC 60950-1
EMC	FCC part 15 class B EN 55022 VCCI Technical Requirements, V-3/2001.04
Physical Properties	
Dimensions (W x H x D)	430mm x 240mm x 45mm
Weight	3kg
LEDs	Power LAN Activity WLAN Port Activity
Power	PoE (IEEE 802.3af): 15W PoE to WLAN ports: 15W for each port
Environmental	
Operational	Temperature: 0°C to 50°C (32°F to 122°F) Humidity: 0% to 90%, non-condensing
Storage	Temperature: - 45°C to +85°C (-49°F to 185°F) Humidity: 0% to 90%, non-condensing

* Some features may be available in a future firmware upgrade

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