

Extricom Wireless LAN Switch EXSW-2400

Extricom's EXSW-2400 switch provides a true high-capacity wireless LAN (WLAN) network. With EXSW-2400, up-to nine times the maximum aggregate capacity can be reached compared to other WLAN systems. The 24-port switch can stand alone, or be used as part of an Extricom System, comprised of multiple EXSW switches (24 or 8-port), designed for crowded enterprise environments of any size or variation.

Extricom's 24-port Wireless Switch is a central component of its patented Interference-Free™ architecture designed for extended coverage in large enterprise deployments. This unique architecture completely avoids co-channel interference, overcoming one of the principal limitations of traditional WLAN systems. As a result, the need for cell planning, RF site surveys and maintenance is eliminated, and the WLAN infrastructure delivers optimal capacity and complete coverage with zero-latency roaming. Dense deployments become easy to manage and deploy, making them perfectly suited for triple play data, voice and video applications.

Blanket coverage eliminates black holes, areas of poor reception, slow performance, range limitations, edge users, and limitations imposed by the collision domain range. Extricom's TrueReuse™ unique capability replaces performance degradation caused by collisions with the ability to reuse the same frequency with high spatial density, resulting in a wireless network that provides wire-like performance across the entire enterprise.

Extricom provides your wireless LAN needs of tomorrow, today.

Features and Benefits

No Cell Planning

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.

Multiple channels

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.

Uplink AP Diversity

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.

Extricom's Triple Same Band

Up to 3 simultaneous WLAN channels (regardless of band) can be used, resulting in increased capacity

Resilience

Switch and APs redundancy and modularity creates a fault tolerant system, which makes the WLAN environment suitable for real-time applications.

Wire-line Quality VoWLAN

Extricom's 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.

TrueReuse™* – Optimum Frequency Reuse

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, providing seamless scalability.

True Swift™ Roaming – No handoff

Clients associate only once to the switch, and remain on the same channel throughout the enterprise. In this way, Zero latency roaming is guaranteed for Inter-AP handoffs. Advanced encryption and authentication methods enable secure WLAN mobility for all mobile devices.

WiFi Collaboration™

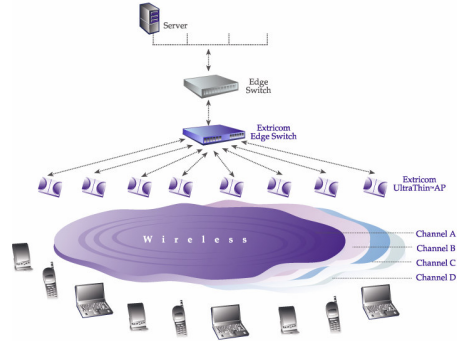
Extricom's WiFi Collaboration™ technology overcomes the difficulties of using RF for data networks. By placing multiple UltraThin™ APs on the same channel and making centralized intelligent decisions at the Wireless Switch, an Extricom WLAN is very tolerant of RF instabilities and transparently provides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

Dense AP Deployment

Users are always close to an Extricom AP. Hand-held devices are able to use lower power by transmitting at higher data rates to reduce transmission time.



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
- IEEE 802.11b
- IEEE 802.11g
- Triple Same band*
- IEEE 802.11i

Ethernet

- IEEE 802.3x, full/half duplex
- IEEE 802.1q, VLAN tagging

Interfaces

WLAN (APs)

- 24 x 100BaseT Ethernet with IEEE 802.3af PoE (out of band, 6 wires)

LAN (Wired LAN)

- 2 x Redundant*, Auto-Negotiating 100/1000baseT Ethernet

Wireless Performance

Channels

- Up to 3 simultaneous WLAN channels (regardless of band)*

Capacity

- Up to 54Mbps per channel (without Reuse), up to 162 Mbps per channel with TrueReuse*

Roaming

- Intra-switch - 0 mSec, inter-switch <15 mSec

TrueReuse™ *

- Up to 3 simultaneous links per channel

Management

User Interface

- Secure Web-based Graphical User Interface (GUI)
- Command Line Interface (CLI) and XML

SNMP

- Traps

Logging

- Remote and local SYSLOG

Upgrades

- Firmware upgrade through Web or CLI

Security

802.11i including:

Encryption

- WEP-64, WEP-108, WPA-TKIP, WPA2-AES (CCMP)

Authentication

- RADIUS (802.1x), WPA Pre-Shared Key (PSK)

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

Installation options

- Rack mount (19" 1U) and desktop

Dimensions (W x H x D)

- 440 mm x 45 mm x 395 mm

Weight

- 4.5 Kg

LEDs

- Power
- LAN Activity
- WLAN Port Activity

Power

- 220VA@ 1.6A
- PoE (IEEE 802.3af): 15W
- PoE to WLAN ports: 15W for each port

Environmental

Operational

- Temperature: 0°C to 45°C
- Humidity: 0% to 90%, non-condensing

Storage

- Temperature: - 20°C to +70°
- Humidity: 0% to 90%, non-condensing

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* Some features may be available in future firmware upgrades

* Information is subject to change without prior notice

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