# MultiSeries 1000 Wireless LAN Switch

The MultiSeries 1000 Wireless LAN switch is a central component of Extricom's award-winning WLAN system, and the key building block of a new generation of business-class wireless infrastructure that scales from a single office to multi-building corporate campuses. The MultiSeries 1000 provides two uplink Gigabit Ethernet ports to connect to the wired LAN, and supports 16 Gigabit Ethernet ports with Power over Ethernet (PoE) to attach up to 16 Extricom UltraThin access points. The MultiSeries 1000 is available with either an 8-port or 16-port license.

The MultiSeries 1000 delivers voice, data, video, and location services with a robust and mobile connection to any Wi-Fi client, in any environment. The Extricom system architecture reduces WLAN complexity, delivers high performance with predictable service, works seamlessly with existing wired network infrastructure, and future proofs your network for tomorrow's multi-service demands. It is an IEEE 802.11n-compliant solution, combined with Extricom's unique Channel Blanket™ architecture, that revolutionizes the Wi-Fi experience for both IT administrators and wireless users.

Channel Blanket Architecture: Simplicity and Performance without Compromise

The MultiSeries 1000 takes full advantage of 802.11n, with every port supporting Gigabit Ethernet. The Extricom WLAN system enables a gradual introduction of 802.11n into the enterprise. Using Channel Blankets to separate 802.11n clients from legacy 802.11a/b/g clients provides full performance for all. Only Extricom allows co-existence of both 802.11n and 802.11b/g devices in the 2.4 GHz band without throughput degradation for either type of client.
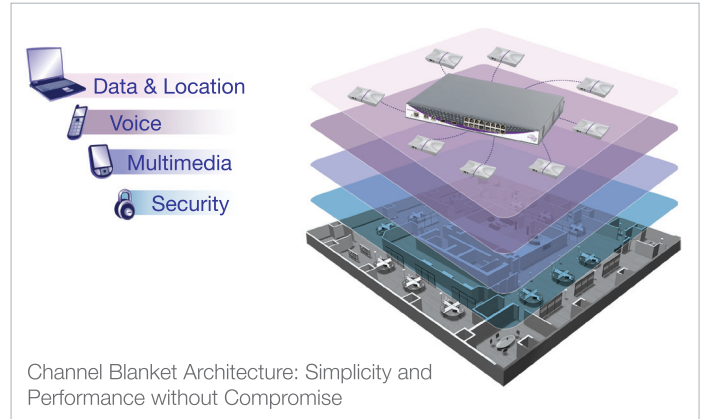
The Extricom Difference

Simpler Design and Maintenance	The Extricom WLAN System reduces the complexity of RF surveys and cell planning. Extricom's UltraThin APs are placed where needed for best coverage and do not require configuration. All APs use the same channel in the Channel Blanket architecture, and the Extricom wireless LAN switch coordinates the connected APs to eliminate co-channel interference.
Superior Wireless Connectivity	With every AP on the same channel, the Extricom switch receives multiple copies of each client transmission and chooses the best AP to transmit the reply, making the system highly resilient to RF interference and ensuring the highest possible throughput.
Continuous Mobility	Client devices move anywhere within the Extricom Channel Blanket without experiencing inter-AP handoffs, re-authentication, or latency, enabling seamless mobility for enterprise wireless LANs.
Designed for 802.11n	The 802.11n compliant MultiSeries 1000 delivers a smooth migration to 802.11n for enterprises. The Extricom Channel Blanket architecture is a perfect match for the unpredictable coverage patterns of 802.11n APs. In an Extricom system, overlapping coverage from adjacent UltraThin APs is not a problem.
Centralized Access	Extricom switches coordinate media access for all of the connected APs and eliminate co-channel interference, which leads to higher performance and more stable operation under heavy load.
Centralized Power	The Extricom WLAN switch supplies power for all the connected Extricom UltraThin APs through built-in PoE, eliminating the need for AC power at the APs. The MultiSeries 1000 supports up to 16 Extricom UltraThin APs.
Service Flexibility	Extricom's multi-layer, multi-channel architecture with overlapping Channel Blankets provides physical segregation of wireless clients and applications. Voice clients can be isolated on one channel, data clients on use another, and legacy 802.11b clients can be separated from newer 802.11n clients. This flexible approach translates into much higher throughput, more stable and predictable wireless LAN performance and the ability to offer service level guarantees.
TrueReuse	TrueReuse™, an Extricom patented technology, increases capacity by permitting simultaneous transmission on the same channel within the Channel Blanket.

MultiSeries 1000 Wireless LAN Switch Specifications

Please see EXOS datasheet for additional WLAN features.

Standards Compliance	
WLAN	IEEE 802.11a/b/g/n IEEE 802.11e/WMM
Ethernet	IEEE 802.3x, full/half duplex IEEE 802.3af Power over Ethernet

Security	
Encryption	802.11i hardware-based encryption for: WEP-64 and WEP-128 WPA-TKIP / AES (CCMP) WPA2-TKIP / AES (CCMP)

Interfaces	
WLAN Ports (to APs)	Sixteen (16) Gigabit Ethernet ports
LAN Ports (Uplink to Wired LAN)	Two (2) Gigabit Ethernet RJ45/SFP Combo Ports

Physical Properties	
Installation Options	Rack mount (19" 1U) and desktop
Dimensions (W x H x D)	441 x 44 x 371mm (17.4 x 1.7 x 14.6")
Weight	3.6 kg (7.9 lbs)
LEDs	Power LAN Activity Activity on AP ports
Power	100-240V / 5A Max PoE to WLAN ports built in IEEE 802.af injectors

Environmental	
Operational	Temperature: 0°C to 45°C (32°F to 113°F) Humidity: 0% to 90%, non-condensing
Storage	Temperature: - 20°C to +70°C (-4°F to 158°F) Humidity: 0% to 90%, non-condensing

Regulations Approval	
Safety	UL 60950-1 EN 60950-1
EMC	FCC Part 15 Class B EN 300386

Ordering Information	
	MultiSeries 1000 16-Port Extricom GbE Wireless LAN Switch Platform (Requires 8-Port or 16-Port EXOS License)

Related Products	
EXLC-800G	8-Port EXOS License For MultiSeries 1000 Platform
EXLC-1600	16-Port EXOS License For MultiSeries 1000 Platform
EXSU 800GU	Upgrades EXLC-800G To EXLC-1600
EXSU 1600TR	License for TrueReuse
MutiSeries 500	8-Port WLAN Switch Platform
EXSW-1632	32-Port WLAN Switch Cascade
EXRP-30n	3-Radio UltraThin 802.11a/b/g/n Access Point
EXRP-40En	4-Radio UltraThin 802.11a/b/g/n Access Point with Connectors for External Antennas
EXRP-20	2-Radio UltraThin 802.11a/b/g Access Point
EXRP-40	4-Radio UltraThin 802.11a/b/g Access Point
EXRP-20E	2-Radio UltraThin 802.11a/b/g Access Point with Connectors for External Antennas
EXRP-40E	4-Radio UltraThin 802.11a/b/g Access Point with Connectors for External Antennas
EXRE-1000	PoE Range Extender
EXMC-1000	Media Converter
EXNM-2000	Wireless Network Management System

Note: Information is subject to change without prior notice.