

# Wireless

## Extricom MS-1000 Cascade WIRELESS LAN SWITCH

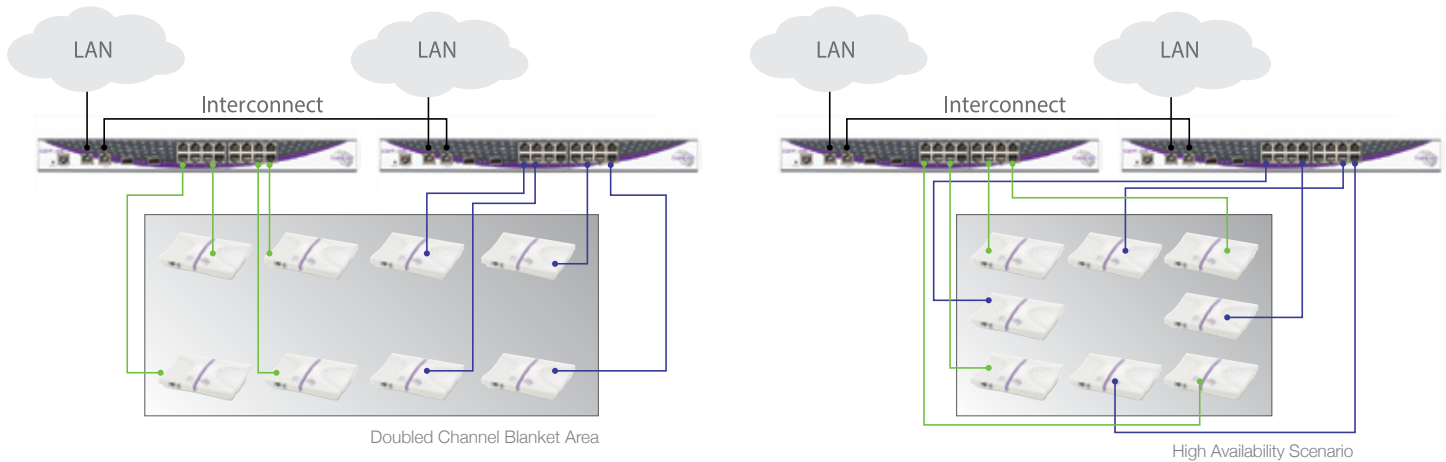


### Extricom MS-1000 Cascade Wireless LAN Switch

The Wi-Fi CERTIFIED™ n MS-1000 Cascade Wireless LAN Switch Cascade scales Extricom's Channel Blanket architecture by extending the continuous mobility zone to twice its previous size – an area covered by 32 Extricom UltraThin Access Points (APs). The Switch Cascade also provides a fully redundant wireless LAN infrastructure to eliminate a single point of failure and support high-availability scenarios.

The MS-1000 Cascade is a WLAN system formed from two conjoined Extricom SW-1600C switches, each of which is user-configurable as the primary or secondary switch\*. Each component switch provides two uplink or interconnect Gigabit Ethernet ports, and sixteen Gigabit Ethernet ports with Power over Ethernet (PoE) to attach any of Extricom's APs. The Switch Cascade system can support up to 32 Extricom APs, enabling up to four independent coverage blankets to be configured from the same physical infrastructure. Component switches may be positioned several hundred metres apart for deployment flexibility. The MS-1000 Cascade can alternatively be configured in a fully redundant, high availability mode to ensure continuous network access and full performance even if there is an AP or switch failure.

The MS-1000 Cascade is compatible with all Extricom APs and interoperable with any IEEE 802.11a/b/g/n wireless client. Switch Cascade topology is also available as an upgrade to existing Extricom SW-1600 deployments through a firmware upgrade and purchase of an SW-1600C switch.



### The Extricom Difference

Continuous Mobility	Client devices move anywhere within a vastly expanded Extricom Channel Blanket without experiencing inter-AP handoffs, re-authentication or latency.
High Availability	Provides complete physical redundancy from a single edge switch solution, ensuring no single point of failure while allowing wireless clients to leverage both component switches.
Scalability	Provides wireless coverage for facilities with a large geographical footprint, such as sports stadiums or a large logistics center, from a single edge switch solution.
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.
Designed for 802.11n	The 802.11n Draft 2 compliant Extricom MS-1000 Cascade delivers a smooth migration path to 802.11n and enables simple, practical 801.11n deployment for enterprises.
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 switches supply power for all the connected Extricom UltraThin APs through built-in PoE. The Extricom MS-1000 Cascade supports up to 32 Extricom 4-radio UltraThin APs.
TrueReuse	TrueReuse™, an Extricom patented technology, increases capacity by permitting simultaneous transmission on the same channel within the Channel Blanket.

# Extricom MS-1000 Cascade | Wireless LAN Switch

## Extricom MS-1000 Cascade Wireless LAN Switch Specifications

Standards Compliance		Physical Properties	
WLAN	IEEE 802.11a/b/g/n IEEE 802.11i IEEE 802.11d	Installation options	Rack mount (19" 1U) and desktop
Ethernet	IEEE 802.3x, full duplex IEEE 802.1q, VLAN tagging IEEE 802.3af Power over Ethernet	Dimensions per component switch (W x H x D)	441 x 44 x 371mm 17.4 x 1.7 x 14.6"
Wireless Performance		Weight per component switch	3.6 kg 7.9 lbs
Channels	Control up to four simultaneous WLAN Channel Blankets, regardless of band	LEDs	Power LAN Activity Activity on AP ports
Capacity	Configurable rate for each channel 802.11b: 1 to 11 Mbps 802.11g/a: 1 to 54 Mbps 802.11n: 6 to 300 Mbps	Power	100-240V / 5A Max PoE to WLAN ports: 15W per port
TrueReuse	Extricom exclusive: Increase aggregate bandwidth of a Wi-Fi channel by enabling denser re-use than cell planning, without co-channel interference.	Environmental	
Roaming	Intra-switch - 0 mSec; Inter-switch < 50 mSec	Operational	Temperature: 0°C to 45°C (32°F to 113°F) Humidity: 0% to 90%, non-condensing
SSID & VLAN		Storage	Temperature: - 20°C to +70°C (-4°F to 158°F) Humidity: 0% to 90%, non-condensing
SSID	Up to 8 ESSIDs per (radio) channel blanket	Ordering Information	
VLANs	4096 Ethernet VLANs SSID to VLAN mapping	Extricom MS-1000 Cascade	32-Port Extricom GbE Wireless LAN Switch Cascade
Management		Regulations Approval	
User Interface	Secure Web-based GUI* Command Line Interface (CLI)	Safety	UL 60950-1 EN 60950-1 IEC 60950-1
SNMP	Version 2c	EMC	FCC Part 15 Class B EN 300386 VCCI Technical Requirements, V-3/2001.04
Redundancy	Master-to-backup auto fallback	Regulations Approval	
Captive Portal	Customizable web client captive portal	Extricom SW400	4-Port Extricom Wireless LAN Switch
Upgrades	Firmware upgrade through Web	Extricom SW800	8-Port Extricom Wireless LAN Switch
Security		Extricom SW-1200	12-Port Extricom Wireless LAN Switch
Encryption	802.11i hardware-based encryption for: WEP-64 and WEP-128 WPA-TKIP / AES (CCMP) WPA2-TKIP / AES (CCMP)	Extricom SW-2400	24-Port Extricom Wireless LAN Switch
Authentication	RADIUS (802.1x) Captive portal authentication WPA Pre-Shared Key (PSK), WPA2 EAP, TLS, TTLS, LEAP, PEAP, MD5, MAC	Extricom SW-800G	8-Port Extricom GbE Wireless LAN Switch
Security policy	MAC Address-based ACL Per ESSID/BSSID security configuration Built-in wireless intrusion detection (IDS) Captive portal walled garden Per-user dynamic VLAN assignment	Extricom SW-1600	16-Port Extricom GbE Wireless LAN Switch
Rogue AP	Built-in, dedicated dual-band scanning using one channel blanket	Extricom RP-20	2-Radio UltraThin 802.11a/b/g Access Point
Interfaces		Extricom RP-40	4-Radio UltraThin 802.11a/b/g Access Point
WLAN Ports (to APs)	Thirty-two (32) Gigabit Ethernet ports with IEEE 802.3af PoE (software enabled)	Extricom RP-20E	2-Radio UltraThin 802.11a/b/g Access Point with Connectors for External Antennas
LAN Ports (Uplink to Wired LAN)	Two (2) Gigabit Ethernet RJ45/SFP Combo Ports per component switch	Extricom RP-40E	4-Radio UltraThin 802.11a/b/g Access Point with Connectors for External Antennas
		Extricom RP-30n	3-Radio UltraThin 802.11a/b/g/n Access Point
		Extricom RP-40En	4-Radio UltraThin 802.11a/b/g/n Access Point
		Extricom NMS	Extricom Wireless Network Management System

Note: Information is subject to change without prior notice.  
\* Individual component switches of the Extricom MS-1000 Cascade system cannot be configured as standalone devices.



the solution : the network

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