Extricom

EXWO-404

Interference-Free™ Wireless LAN
Wireless Office Edition

- **Simple to deploy and maintain**
- **Reliable and robust wireless connections**
- **Guaranteed coverage, bandwidth, and mobility**

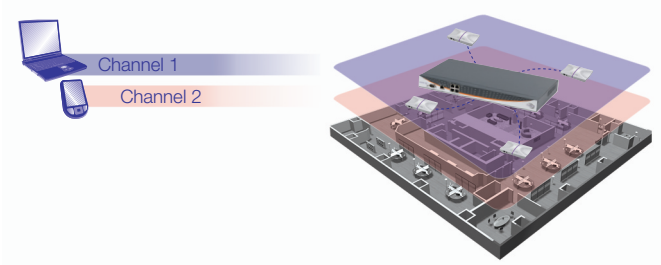
The Extricom Interference-Free™ Wireless LAN provide an unmatched combination of simplicity and performance, enabling businesses of all sizes to confidently and cost-effectively transform their operations wirelessly.

The EXWO-404 Wireless Office system offers an enterprise-class, 802.11-compliant WLAN solution in a convenient all-in-one package consisting of a WLAN Switch and four UltraThin™ Dual Radio Access Points (APs). The system's remarkable ease of deployment provides a fast and economical way for organizations to bring up a branch office, a school, a health clinic, a mid-sized warehouse, or any other environment that requires a small to medium wireless coverage area.

The EXWO-404 is a feature-rich offering, scaled-down yet fully compatible with Extricom's complete line of enterprise products, which enables your organization to get started with wireless and grow to any size.

Market-leading simplicity and performance stem from Extricom's unique system topology, which replaces the traditional idea of AP cells with the "channel blanket". In this system, the central WLAN switch tightly controls all transmissions and traffic across a set of identical APs, each operating on the same channels. The resulting channel blankets provide users with high-speed, "wire-like" connections that are always secure and persistent.

Since the APs effectively act like a large distributed antenna for the Switch, deploying the Extricom system is as simple as placing APs wherever signal is needed, without any of the co-channel interference, channelization, or coverage/capacity constraints experienced in traditional WLANs. And this is done without time-consuming and labor-intensive RF cell planning.



The Extricom Channel Blanket Topology:
Simplicity and Performance without Trade-Off

Simplicity

No Cell Planning
Place Extricom APs wherever signal is needed, the same way you would position an antenna to get better transmission and reception.

Zero Configuration AP
APs require no configuration and are completely identical and interchangeable. No need to reconfigure, reboot, or otherwise maintain the AP.

Built-in Power-Over-Ethernet
Power-over-Ethernet (PoE) built into the Switch eliminates the need for AC power at the AP.

Performance

Multi-Layer WLAN
A single set of APs enables deployment of two high-speed channel blankets, operating on any combination of channels, even in the same frequency band.

Robust Connection
With all APs on the same channels, user transmissions benefit from path diversity, making them highly resistant to RF instabilities and outside interference.

Future-Proof
Ready for voice. Ready for more applications. Ready to scale up. Whatever the objective, the EXWO-404 is your entry point into Extricom's complete line of enterprise WLAN.

Wireless On the Move

Wireless On the Move™

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Specifications

Wireless Switch and Access Point

Wireless Switch Physical Properties		
WLAN Ports	4 ports, with built-in IEEE 802.3af PoE	
LAN Ports (Wired LAN)	1 Auto-Negotiating 10/100 BaseT Ethernet port	
Installation options	Rack mount (19" 1U) and desktop	
Dimensions (W x H x D)	430 x 45 x 240mm	16.9 x 1.8 x 9.45"
Weight	2.8 kg	6.2 lbs
Visual Indicators (LEDs)	Power, LAN Activity, Activity on each AP port	
Power	100-240/2A Max PoE to WLAN ports: 15W per port	

Access Point Physical Properties		
Built-in Radios	Two (2) IEEE 802.11 a/b/g radios	
Frequency Bands Supported (Available channels limited by local regulation)		
802.11b/g 2.402-2.472 GHz – US/Canada 2.402-2.482 GHz – ETSI 2.402-2.494 GHz – Japan	802.11a 5.15-5.25 GHz (low band) 5.25-5.35 GHz (mod band) 5.505-5.725 GHz (Europe) 5.725-5.850 GHz (high band)	
Dimensions (W x H x D)	195 x 125 x 45 mm	7.7 x 4.9 x 1.8"
Weight	0.4 kg	0.9 lbs
Visual Indicators (LEDs)	Power, LAN Activity, Radio 1, Radio 2	
Power	PoE (IEEE 802.3af) Power Supply (optional): 48VDC	

Regulations Approval	
Safety	UL 60950-1 EN 60950-1 IEC 60950-1 ANATEL Resolution 238
EMC	FCC Part 15 Class B EN 300386 EN 301 489 VCCI Technical Requirements, V-3/2001.04 ANATEL Resolution 237
Radio (including modular approval)	FCC Part 15 C FCC Part 15 E EN 300 328 EN 301 893 Japan Type Certificate: Article 2, clause 1 ANATEL Resolution 365

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

System Performance

Wireless Performance	
Simultaneous Channels	Two (2) simultaneous WLAN channel blankets, operating on any combination of band (e.g. two 2.4GHz channels, two 5GHz channels, or one channel in each band)
Capacity	Configurable data rate for each channel (Up to 54 Mbps)
Supported Rates	
802.11a	6, 9, 12, 18, 24, 36, 48, and 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, and 54 Mbps
802.11b	1, 2, 5.5, and 11 Mbps
Transmission Power	802.11b: 17 dBm max 802.11g: 15 dBm max 802.11a: 17 dBm max Mean, measured at radio output
Antenna	Two (2) internal, 0 dBi gain, omni-directional diversity antennas for each radio
Mobility	AP-to-AP Handoff Delay: 0 msec

Management	
User Interface	Secure Web-based Graphical User Interface (GUI)
Monitoring	SNMP traps and Syslog
SSID	5 SSIDs per switch
VLANs	4096 Ethernet VLANs SSID to VLAN mapping
Upgrades	Firmware upgradeable

Security	
Encryption	WEP-64 WEP-128 WPA-TKIP
Authentication	RADIUS (802.1x) WPA Pre-Shared Key (PSK) EAP, TTS, TTLS, LEAP, PEAP, MD5

Standards	
WLAN	IEEE 802.11a IEEE 802.11b IEEE 802.11g
Ethernet	IEEE 802.3x, full/half duplex IEEE 802.1q, VLAN tagging

Ordering Information	
EXWO-404	Bundle of one Extricom 4-Port Wireless LAN Switch and four (4) UltraThin Access Points with Dual 802.11 a/b/g radios, internal antennas

* Information is subject to change without prior notice

2006 MBX **Ultimate Mobility**

2006 ITWeek **Vendor of the Year**

2006 Fierce **WiFi Fierce 15**

2006 Internet Telephony **Product of the Year**

2006 TechWorld Wireless **Product of the Year**

2006 Communications Solutions **Product of the Year**