Data Sheet – EXRP-30n

EXRP-30n Three-Radio UltraThin 802.11n Access Point with Integrated Antennas

The EXRP-30n Three-Radio UltraThin™ Access Point (AP) is a key component of Extricom's 802.11n-enabled, Interference-Free™ Wireless LAN System. The Extricom WLAN, based on patented Channel Blanket™ technology, makes possible the only truly disruption-free introduction of maximum-performance 802.11n in the enterprise.

Uncompromising Performance

Extricom's solution permits gradual deployment of 802.11n, without requiring a redesign of the existing wireless and wired network, and no "forklift" cut-over from 802.11a/b/g to 802.11n. In fact, only the Extricom system enables co-existence and full-performance of both 'n' and legacy 'g/b' devices at 2.4GHz. And as further evidence of Extricom's unique architecture, the EXRP-30n three-radio AP will maintain full operation and transmission rates on all radios even when powered by the existing 802.3af PoE standard.

Surprising Simplicity and Flexibility

The Extricom EXRP-30n is a high-bandwidth device, containing a total of three Wi-Fi radios: two 802.11 n/a/b/g and one 802.11a/b/g. And since all of the system intelligence resides in the Extricom WLAN Switch, AP installation is truly plug-and-play. APs can be deployed in any density, with whatever spacing needed to guarantee high-quality, high-speed connectivity everywhere.

In this respect, the Extricom deployment philosophy is like that of wired networks: simply place APs wherever service is required, based solely on the desired grade of service (i.e. connection rate), without any of the interference, channelization, or coverage/capacity constraints seen in traditional WLANs. And you do this without time- or labor-intensive RF cell planning.

In addition, the fully integrated antennas of the EXRP-30n provide a fast-track to deployment, with no other hardware to install or external power sources needed.

The Extricom Interference-Free Architecture

- The only 802.11n system enabling full 'n' speed in both 2.4GHz and 5GHz, even when legacy b/g/a devices are present
- Converged Voice, Data & Video, with Zero-Latency Mobility
- Robust, Wire-Like Connectivity
- No RF Cell Planning or Co-Channel Interference
- Multi-Channel, Multi-Layer WLAN in One Infrastructure

Features and Benefits:

Guaranteed Service Level	Regardless of radio band (2.4 or 5 GHz) or channel, EXRP-30n APs are deployed in any density convenient to the enterprise, to achieve both blanket coverage and a guaranteed communications rate to all users.
Full-Performance in Mixed Environment	Extricom Channel Blanket deployment of EXRP-30n APs permits 'n' and legacy 'a/b/g' devices to co-exist, in either band, with full speed and throughput maintained for all.
Zero Configuration AP	Extricom's UltraThin APs enable true plug-and-play deployment. With no software inside, each AP requires no configuration and is completely interchangeable.
Immune to MIMO Coverage Variability	With all APs able to receive on the same channel, the Extricom WLAN provides uplink path diversity for client transmissions, making the system immune to the variance in coverage caused by MIMO antenna technology.
Ease of Installation / Standard PoE	The EXRP-30n is equipped with integrated antennas and maintains full operation with 802.03af PoE power.

Wireless that Works

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EXRP-30n Three-Radio UltraThin Access Point Technical Specifications

Key Features

- Tri-Radio Access Point with Integrated Antennas
- Works in Mixed 802.11 n/a/b/g Environments with No Loss of Throughput
- MIMO 3x3 Configuration
- Zero AP-to-AP Handoff Delay
- Link Resilience with AP Path Diversity
- Anti-Breach Security and Built-in Rogue AP Detection
- Zero–Configuration Device
- Standard 802.3af PoE on single cable supports full-rate on all radios concurrently
- Multi-layered security including standards-based WPA2 security and rogue detection
- Integral Hanging Brackets

WLAN Standards	
WLAN	IEEE 802.11n, 2.4GHz and 5GHz IEEE 802.11g, 2.4GHz (pure mode, mixed mode) IEEE 802.11b, 2.4GHz (short/long preamble support) IEEE 802.11a, 5GHz

Spectrum	
Number of simultaneous channels	Up to three simultaneous 802.11n/b/g/a channels
Operating Frequencies	2.412 – 2.472 GHz 5.15–5.35 / 5.47-5.825 GHz

Maximum Number of Non Overlapping Channels – Varies by local regulation			
2.4 GHz		5 GHz	
b/g	3 x 20MHz channels	a	13 x 20MHz channels
n	3 x 20MHz channels or 1 x 40MHz and 1 x 20MHz channels	n	13 x 20MHz channels or 9 x 40MHz channels

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
802.11n	20MHz: 6.5, 7.2, 13, 14.4, 19.5, 21.7, 26, 28.9, 39, 43.3, 52, 57.8, 58.5, 65, 72.2, 78, 86.7, 104, 115.6, 117, 130, 144.4 40Mhz: 13.5, 15, 27, 30, 40.5, 45, 54, 60, 81, 90, 108, 120, 121.5, 130, 135, 157.5, 162, 180, 216, 240, 243, 270, 300

Transmitter Power (Avg)	
802.11n	17dBm (2.4GHz and 5GHz)
802.11g/b	17dBm
802.11a	17dBm

Rogue AP Detection	
Infrastructure	Dedicated radio per AP
Functionality	Automated, continuous monitoring, ensures very fast detection of rogue AP (finds a rogue AP in 2 minutes average)
Additional Features	Configurable “white list” of allowed BSSIDs

Antenna Specifications	
802.11n	3 x 3 MIMO - 3 Transmit and 3 Receive chains
Each Radio	Three (3) dual-band omni-directional internal antennas for diversity for each 802.11n/g/b/a radio Two (2) dual-band omni-directional internal antennas for diversity for each 802.11g/b/a radio

Regulations Approval*	
Safety	UL 60950-1 EN 60950-1 IEC 60950-1 ANATEL Resolution 238
EMC	FCC Part 15 class B EN 301 489 VCCI Technical Requirements, V-3/2001.04
Radio (including modular approval)	FCC Part 15 C and FCC Part 15 E EN 300 328 EN 301 893 Japan Type Certificate: Article 2, clause 1 ANATEL Resolution 506

Physical Properties		
Dimensions (W x H x D)	196 x 42 x 125 mm	7.7 x 1.6 x 4.9”
Weight	0.42 kg	0.95 lbs
Installation Options	Horizontal (desktop) or Vertical (wall mount)	
Status LEDs	Link Activity 3 x WLAN Activity (2 colors)	
Power	PoE (IEEE 802.3af) Power Supply (optional): 48VDC	

Environmental	
Operational	Temperature: -5°C to +55°C (23°F to 131°F) Humidity: 0% to 95%, non-condensing
Storage	Temperature: - 20°C to +70°C (-4°F to 158°F) Humidity: 0% to 90%, non-condensing

Ordering Information	
EXRP-30n	Extricom Three-Radio UltraThin Access Point with two 802.11n/a/b/g radios and one 802.11 a/b/g radio, integrated omni-directional antennas.

Related Products

EXRP-40En Four-Radio UltraThin AP
EXSW-1200 / 1600 / 2400 Wireless LAN Switch

* Information is subject to change without prior notice.

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