Extricom

EXRP-40En Four-Radio UltraThin 802.11n Access Point with Connectors for External Antennas

The EXRP-40En Four-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-40En four-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-40En is a high-bandwidth device, containing a total of four Wi-Fi radios: two 802.11n/a/b/g and two 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.

The EXRP-40En AP supports a range of deployment options, to deliver secure wireless infrastructure for all environments, including Enterprise, Education, Healthcare, Warehouse, and Retail.

Features and Benefits:

Guaranteed Service Level	Regardless of radio band (2.4 or 5 GHz) or channel, EXRP-40En 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-40En 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-40En AP is plenum-rated and equipped with multiple RP-SMA connectors for external antennas, and can be mounted on wall, ceiling, or outdoors in weather-proof enclosures. It is compatible with the Extricom External Antenna Bar, which enables convenient and aesthetically pleasing multiple antenna installations that blend into the environment. The EXRP-40En also maintains full operation with standard 802.3af PoE power.

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

Wireless On the Move

Key Features

- Quad Radio AP with connectors for external 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
- Plenum-Rated Metal Enclosure
- Mounting Brackets for Easy Installation

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EXRP-40En Four-Radio UltraThin Access Point Technical Specifications

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 four 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 (Max)	
802.11n	16dBm (2.4GHz) / 20dBm (5GHz)
802.11g/b	20dBm
802.11a	20dBm

Receive Sensitivity	
802.11n	-82dBm for 20MHz channels -79dBm for 40MHz channels
802.11g	-65dBm at 54Mbps
802.11b	-76dBm at 11 Mbps
802.11a	-65dBm at 54Mbps

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) connectors for each 802.11n/g/b/a radio Two (2) connectors for each 802.11g/b/a radio

Regulations Approval*	
Safety	UL 60950-1 EN 60950-1 IEC 60950-1
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 365

Physical Properties		
Dimensions (W x H x D)	201 x 107 x 41 mm	7.9 x 4.2 x 1.6"
Weight	0.55 kg	1.21 lbs
Installation Options	Horizontal (desktop) or Vertical (wall mount)	
Status LEDs	4 x WLAN Activity (2 colors)	
Power	PoE (IEEE 802.3af) Power Supply (optional): 48VDC	

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

Ordering Information	
EXRP-40En	Extricom Four-Radio UltraThin Access Point with two 802.11n/a/b/g radios and two 802.11 a/b/g radios, with 10 RP-SMA Female antenna connectors.

Related Products
EXRP-30n Three-Radio UltraThin Access Point EXAN Antenna Bar EXSW-1200 / 1600 / 2400 WLAN Switch

* Information is subject to change without prior notice.

Wireless On the Move