



**EXRP-20E / EXRP-40E UltraThin Access Point
with Connectors for External Antennas**

Guaranteed Performance

The EXRP-20E and EXRP-40E UltraThin™ Access Points (APs) are a key component of Extricom's Interference-Free™ Wireless LAN System. This unique solution sets the industry's highest standard for Wi-Fi performance, providing the user with wireless connectivity that is completely mobile, and uninterrupted by dropped connections, with guaranteed quality of service for high-bandwidth data, voice, and video applications.

Surprising Simplicity

Extricom's APs are high-bandwidth devices, containing two or four standard 802.11 b/g/a radios. Unlike all others, Extricom APs have no software or individual configuration, since all of the system intelligence resides in the Extricom WLAN Switch. This gives the advantage of truly plug-and-play AP installation, as well as allowing APs to 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.

Implementation Flexibility

EXRP-20E and EXRP-40E APs support 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

Extricom's APs are deployed in any density convenient to the enterprise, to achieve both blanket coverage and a guaranteed communications rate to all users. In fact, while other solutions shy away from dense deployments because of their inherent RF obstacles, Extricom's system performance actually increases with AP density.

Zero Configuration AP

Extricom APs enable true plug-and-play deployment. With no software inside, each AP requires no configuration and is completely interchangeable. There is no need to reconfigure, reboot, or otherwise maintain the AP.

Highly Resistant to RF Instability

With all APs able to receive on the same channel, the Extricom WLAN provides uplink path diversity for client transmissions, making the system highly resistant to RF instability and outside interference.

Ease of Installation

The EXRP-20E and EXRP-40E APs are 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. They are compatible with the Extricom EXAN-04 and EXAN-08 External Antenna Bar, which enables convenient and aesthetically pleasing multiple antenna installations that blend into the environment.

The Extricom Interference-Free Architecture

- 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



EXRP-20E (Two-Radio) | EXRP-40E (Four-Radio) Technical Specifications

Key Value Points

- Dual or Quad 802.11 b/g/a Radio AP
- Work in Mixed 802.11 b/g/a Environments with No Loss of Throughput
- Zero AP-to-AP Handoff Delay
- Link Resilience with AP Path Diversity
- Anti-Breach Security and Built-in Rogue AP Detection
- Zero-Configuration Device
- Power over Ethernet (PoE)
- External Antenna Connectors
- Plenum Rated Metal Enclosure
- Integral Hanging Brackets

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Wireless
On the Move

WLAN Standards

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

Number of simultaneous channels	Up to four (EXRP-40E) or up to two (EXRP-20E), using any combination of 802.11a/b/g channels
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802.11a	802.11b/g
Up to 13 non-overlapping channels subject to local regulations	Available channels limited by local regulations
5.15-5.25 GHz	3 non-overlapping channels (US)- 2.402-2.472 GHz
5.25-5.35 GHz	
5.505-5.725 GHz	3 non-overlapping channels (ETSI)- 2.402-2.482 GHz
5.725-5.850 GHz	4 non-overlapping channels (Japan)-2.402-2.494 GHz

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

802.11a/b/g	Max: 20 dBm
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Receive Sensitivity

802.11a	802.11b/g
6 Mbps: -88 dBm	1 Mbps: -91 dBm
9 Mbps: -87 dBm	2 Mbps: -88 dBm
12 Mbps: -86 dBm	5.5 Mbps: -87 dBm
18 Mbps: -84 dBm	6 Mbps: -89 dBm
24 Mbps: -81 dBm	9 Mbps: -88 dBm
36 Mbps: -77 dBm	11 Mbps: -85 dBm
48 Mbps: -73 dBm	12 Mbps: -87 dBm
54 Mbps: -69 dBm	18 Mbps: -85 dBm
	24 Mbps: -82 dBm
	36 Mbps: -79 dBm
	48 Mbps: -74 dBm
	54 Mbps: -71 dBm

Rogue AP Detection

Infrastructure	Dedicated radio per AP
Functionality	Automated, continuous monitoring assures very fast detection of Rogue AP (finds Rogue AP in 2 minutes average)

Additional Features Configurable "white list" of allowed BSSIDs

Antenna Specifications

Each Radio or All Radios	Up to two multiband omni-directional antennas (not included) Extricom EXAN-04/08 antenna bar with 4 or 8 integral antennas and connection cables
Antenna Gain	Up to 5dBi

Regulations Approval*

Safety	UL 60950-1 UL 2043 EN 60950-1 IEC 60950-1
EMC	FCC Part 15 class B EN 301 489 VCCI Technical Requirements, V3/2001.04
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

Physical Properties

Dimensions (W x H x D)		
EXRP-20E/40E	201 x 107.3 x 41.3 mm	7.9 x 4.2 x 1.6"
Weight		
EXRP-20E	0.51 kg	1.12 lbs
EXRP-40E	0.55 kg	1.21 lbs
Installation Options	Horizontal (desktop) Vertical (wall mount) - bracket included	

LEDs		
EXRP-20E	Power LAN Activity 2 x WLAN Activity (2 colors)	
EXRP-40E	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-20E	Extricom UltraThin™ Access Point with Dual 802.11 b/g/a radios and 4 RP-SMA Female antenna connectors
EXRP-40E	Extricom UltraThin™ Access Point with Quad 802.11 b/g/a radios and 8 RP-SMA Female antenna connectors

* Information is subject to change without prior notice.