Extricom

Data Sheet – EXRP-20/40

EXRP-20/EXRP-40 UltraThin 2- and 4-Radio Access Point with Internal Antennas

Guaranteed Performance

The EXRP-20 and EXRP-40 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 the 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 to guarantee high-quality, high-speed connectivity everywhere.

Implementation Flexibility

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 internal-antenna EXRP-20 and EXRP-40 APs provide a fast-track to deployment, with no other hardware to install or external power sources needed. Just mount the AP, connect it to the Extricom switch and it's ready to go.

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
- Provides up to 4 Blankets

Features and Benefits:

Guaranteed Service Level	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's UltraThin 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 and outside interference	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.
Highly Secure AP	The AP is never a point of possible breach, since all security is performed centrally, at the switch, and the connection between the switch and AP is secure.

Wireless On the Move

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EXRP-40 (Four-Radio) | EXRP-20 (Two-Radio) With Internal Antennas

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)
- Integral Hanging Brackets

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

Spectrum

Number of Simultaneous channels	Up to four (EXRP-40) or up to two (EXRP-20), using any combination of 802.11a/b/g channels

802.11a	802.11b/g
Available channels limited by local regulation	Available channels limited by local regulation
13 non-overlapping channels (US)	3 non-overlapping channels (US)- 2.402-2.472 GHz
5.15-5.25 GHz	3 non-overlapping channels (ETSI)- 2.402-2.482 GHz
5.25-5.35 GHz	4 non-overlapping channels (Japan)- 2.402-2.494 GHz
5.505-5.725 GHz	
5.725-5.850 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	Up to 20 dBm

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 a rogue AP in 2 minutes average)
Additional Features	Configurable “white list” of allowed BSSIDs

Antenna Specifications

Each Radio	Two (2) internal omni-directional antennas for diversity

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, V3/2001.04 ANATEL Resolution 442
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 506

Physical Properties

Dimensions (W x H x D)		
EXRP-20/40	195 x 125 x 45 mm	7.7 x 4.9 x 1.8”
Weight		
EXRP-20	0.40 kg	0.9 lbs
EXRP-40	0.45 kg	1.0 lbs
Installation Options	Horizontal (desktop) Vertical (wall mount)	
LEDs		
EXRP-20	Power LAN Activity 2 x WLAN Activity (2 colors)	
EXRP-40	4 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-20	Extricom UltraThin Access Point with Dual 802.11 a/b/g radios, internal antennas
EXRP-40	Extricom UltraThin Access Point with Quad 802.11 a/b/g radios, internal antennas

* Information is subject to change without prior notice.

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