Data Sheet – EXRP-20E

EXRP-20E UltraThin 2-Radio Access Point with Connectors for External Antennas

Guaranteed Performance

The EXRP-20E UltraThin™ Access Point (AP) is a key component of the Extricom 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 AP is a high-bandwidth device, containing two 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

The EXRP-20E AP supports a range of deployment options to deliver secure wireless infrastructure for all environments, including Enterprise, Education, Healthcare, Warehouse, and Retail.

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

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 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.

Wireless that Works

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EXRP-20E (Two-Radio) Technical Specifications

Key Value Points

- Dual 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
- Mounting Bracket for Easy Installation

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 two using any combination of 802.11a/b/g channels

802.11a	802.11b/g
Up to 13 non-overlapping channels subject to local regulations 5.15-5.25 GHz 5.25-5.35 GHz 5.505-5.725 GHz 5.725-5.850 GHz	Available channels limited by local regulations 3 non-overlapping channels (US)- 2.402-2.472 GHz 3 non-overlapping channels (ETSI)- 2.402-2.482 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	Avg: 17dBm

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 or 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)
Antenna Gain	Up to 5dBi

Regulations Approval

Safety	UL 60950-1 NEC 300.22(C) 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)	236 x 47.5 x 129 mm	9.3 x 1.9 x 5.1”
Weight	0.60 kg	1.32 lbs
Installation Options	Horizontal (desktop) Vertical (wall mount) - bracket included	
LEDs	Power LAN Activity 2 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-20E	Extricom UltraThin™ Access Point with Dual 802.11 b/g/a radios and 4 RP-SMA Female jack antenna connectors

* Information is subject to change without prior notice.

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