

### WHAT THIS PRODUCT DOES

- ▶ The Luxul Xen™ High Performance Outdoor 802.11n Wireless Access Point (XAP-1040) provides superior Wi-Fi performance in a ruggedly elegant weather resistant (IP-66 compliant) enclosure. It implements Luxul's exclusive and patented Xen3D™ technology to deliver 4 times the coverage of traditional Wi-Fi equipment. It is simple to install and is a great choice for delivering coverage to outdoor areas or as a point-to-point/point-to-multipoint bridge solution.

### USE THE XAP-1040 TO:

- ▶ Provide a High Performance Outdoor 802.11n Wi-Fi Network
- ▶ Setup a Superior Point-to-Point or Point-to-Multipoint Bridge Link
- ▶ Increase Mobile Client Device Network Sensitivity and Performance
- ▶ Simplify Installation While Minimizing Setup Time and Expense
- ▶ Eliminate Client Device Roaming Issues

### FEATURES

- ▶ Patented Xen3D™ Technology
- ▶ Highest FCC Approved Performance (Effective EIRP 36dBm)
- ▶ 18dB of Receive Gain Increases Client Device Network Sensitivity
- ▶ 2.4 GHz IEEE 802.11n Compliant
- ▶ QoS Functionality
- ▶ Enhanced Multi-Level Security
- ▶ Up to 8 SSIDs and Support for VLAN Tagging
- ▶ Single Cable Installation with POE
- ▶ Easy Setup through Web-based XenSmart™ User Interface
- ▶ Weather Resistant IP-66 Compliant Enclosure

## XAP-1040

### Luxul Xen™ High Performance Outdoor 802.11n Wireless Access Point



The Luxul Xen™ High Performance Outdoor 802.11n Wireless Access Point (XAP-1040) provides superior Wi-Fi coverage for outdoor areas while maintaining an unobtrusive profile for use in residential and commercial Wi-Fi installations. The ruggedly elegant XAP-1040 is weather resistant to IP-66 specifications and can be installed directly on a wall or on a pole with the included mounting bracket. It is also an excellent solution for creating a point-to-point or point-to-multipoint bridge link. Powered by Luxul's Xen3D™ Technology, the XAP-1040 enhances data throughput and coverage by as much as 400% over traditional Wi-Fi gear.

### EXPERIENCE SUPERIOR WI-FI PERFORMANCE WITH XEN3D™ TECHNOLOGY

The XAP-1040 represents the most advanced and powerful Wireless Access Point technology on the market. It combines the benefits of industry standard 802.11n wireless networking with Luxul's exclusive and patented Xen3D technology. Xen3D enhances the performance of the overall wireless network by increasing the access point coverage area while also enhancing the receive sensitivity of wireless client devices. This combination ensures a superior Wi-Fi experience that is unmatched by traditional wireless access points.

### IMPROVE NETWORK INTEGRITY WHILE SIMPLIFYING INSTALLATION

Designed for installation simplicity, the XAP-1040 requires only a single Ethernet cable to deliver both power and data from any 802.3af or legacy POE injector or switch—significantly reducing installation time and complexity. Plus, because it delivers four times the performance of a traditional wireless access point, the XAP-1040 eliminates the need to deploy multiple access points to provide full outdoor coverage. This reduces complexity, costs and time associated with network deployment. It also enhances network integrity by eliminating the need for client roaming.

### HASSLE-FREE SETUP

Luxul has designed the XAP-1040 to require only minimal configuration—making setup simple and hassle-free. The XenSmart™ web based interface provides for an easy 3-step setup, with more advanced options available when needed. POE support further simplifies the installation process. For maximum benefit, the XAP-1040 is part of the XenConnect™ product suite and is designed to seamlessly integrate with other Luxul Xen switch and router products.

### XAP-1040 TECHNICAL SPECIFICATIONS

<b>Standards</b>	<ul style="list-style-type: none"> <li>▶ IEEE 802.11n</li> <li>▶ IEEE 802.11b/g</li> <li>▶ IEEE 802.3af</li> <li>▶ IP-66</li> </ul>
<b>Hardware</b>	<ul style="list-style-type: none"> <li>▶ LAN Port: 1 RJ45 10/100 Mbps data and power input</li> <li>▶ 7dBi Circular Polarized Directional Antenna</li> <li>▶ LEDs: All LEDs are internal and not visible with cover in place (Power, WLAN active, LAN link/activity, Bridge mode active).</li> </ul>
<b>RF Information</b>	<ul style="list-style-type: none"> <li>▶ Frequency Band: 2.401 – 2.473GHz</li> <li>▶ Operating Channels: 11</li> </ul>
<b>Available Transmit Power</b>	<ul style="list-style-type: none"> <li>▶ 2.401 – 2.473GHz (IEEE802.11g/n): Up to 36dBm EIRP <ul style="list-style-type: none"> <li>▶ 30dBm @ 6-9Mbps / MCS0</li> <li>▶ 29dBm @ 12-18Mbps / MCS1-2</li> <li>▶ 27dBm @ 24-36Mbps / MCS3-4</li> <li>▶ 26dBm @ 48-54Mbps / MCS5-7</li> </ul> </li> <li>▶ 2.401 – 2.473GHz (IEEE802.11b): Up to 36dBm EIRP <ul style="list-style-type: none"> <li>▶ 30dBm @ 1-11Mbps</li> </ul> </li> </ul>
<b>Available Receive Gain</b>	<ul style="list-style-type: none"> <li>▶ 2.401 – 2.473GHz (IEEE802.11g/n): Up to 18dBm</li> <li>▶ 2.401 – 2.473GHz (IEEE802.11b): Up to 18dBm</li> </ul>
<b>Receive Sensitivity (Typical)</b>	<ul style="list-style-type: none"> <li>▶ 2.401 – 2.473GHz (IEEE802.11n): Up to -91dBm</li> <li>▶ 2.401 – 2.473GHz (IEEE802.11g): Up to -92dBm</li> <li>▶ 2.401 – 2.473GHz (IEEE802.11b): Up to -93dBm</li> </ul>

<b>Wireless Operation Modes</b>	<ul style="list-style-type: none"> <li>▶ Access Point</li> <li>▶ Point-to-Point Wireless Bridge</li> <li>▶ Point-to-Multipoint Wireless Bridge</li> </ul>
<b>Management and Security</b>	<ul style="list-style-type: none"> <li>▶ XenSmart™ Remote Web-based Management</li> <li>▶ WEP (128 bit)</li> <li>▶ WPA-PSK (TKIP, AES, TKIP&amp;AES)</li> <li>▶ WPA2-PSK (AES)</li> <li>▶ WPA-PSK/WPA2-PSK Auto (TKIP&amp;AES)</li> <li>▶ Web Based Firmware Upgrade</li> <li>▶ QoS: Wireless Multi-Media (WMM) Extensions</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>▶ FCC Part 15, Class B</li> </ul>
<b>Power Requirements</b>	<ul style="list-style-type: none"> <li>▶ Ethernet POE in: 48VDC/0.375A for IEEE 802.3af Compliance</li> <li>▶ Power Consumption: 5W Nominal, 13W Max</li> </ul>
<b>Temperature Range</b>	<ul style="list-style-type: none"> <li>▶ Operating: -4°F to 131°F (-20°C to 55°C)</li> <li>▶ Storage: -40°F to 158°F (-40°C to 70°C)</li> </ul>
<b>Operating Humidity</b>	<ul style="list-style-type: none"> <li>▶ 5% to 95% (Non-condensing)</li> </ul>
<b>Mechanical</b>	<ul style="list-style-type: none"> <li>▶ Dimensions WxHxD: 7.9" (200mm) x 7.5" (190mm) x 3.15" (80mm)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>▶ Item: 1.2 lbs</li> <li>▶ With Packaging: 2 lbs</li> </ul>

#### Warranty:

- ▶ 1 year

#### Minimum System Requirements

- ▶ Devices Supporting 802.11b, 802.11g or 802.11n
- ▶ Web Browser (Microsoft IE 7.0 and up, Mozilla Firefox 1.0 and up, Safari 1.0 and up, Google Chrome 5.0 and up)
- ▶ CAT5 Ethernet Cable
- ▶ Internet Connection to View Documentation Online

#### Package Contents

- ▶ XAP-1040 Wireless Access Point
- ▶ Weather Resistant RJ45 Connector Gland
- ▶ Dual Purpose Mounting Bracket for Wall or Pole
- ▶ POE Injector and Power Adapter
- ▶ Quick Install Guide

All references to speed are for comparison purposes only.

Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.