

SmartPath Enterprise Wireless

Finally—the speed, range, security, and flexibility to replace wired networks at an enterprise level.



- Fast, seamless 802.11n throughput rivals that of wired networks *and* supports video and VoIP communications!
- Advanced controller-less architecture improves performance and saves money.
- Access points work together to improve throughput and provide redundancy.
- Supports legacy 802.11b/g wireless devices with no degradation in 802.11n performance.

The Black Box SmartPath Enterprise Wireless system combines the stability, security, and speed of a wired network with the versatility and adaptability of a wireless network.

Unlike ordinary wireless, in which access points function as accessories to the wired network, SmartPath is designed as an *equal partner* to the wired network, making it a practical way to provide wireless across your organization.

Smart architecture.

SmartPath Wireless Access Points (APs) manage traffic intelligently and work together to provide seamless, efficient throughput to end devices.

Early wired networks were built around unmanaged hubs, which indiscriminately sent packets to all connected nodes. Today's networks are built around smart switches, which actively sort packets based on MAC address (Layer 2) or IP address (Layer 3), then send the packets only to where they're needed—either to an attached node or to another switch or router for forwarding.

Today's average wireless AP functions much like a legacy network hub, acting only as an interface to the wired network, without making any decisions about where to send packets.

A SmartPath AP, on the other hand, behaves as a high-end switch, sorting packets and sending them to where they're needed—broadcasted wirelessly to a nearby laptop, passed on to another access point in a wireless mesh arrangement, or sent through the wired network to another endpoint.

SmartPath can even track a user moving from one AP to another, providing seamless connectivity for mobile users. Advanced circuitry and algorithms allocate air time efficiently, enabling older 802.11a/b/g devices to share the network without slowing down 802.11n connectivity.

SmartPath APs contain the features you'd expect from an enterprise-grade wireless product, including Layer 2 switching, VPN tunnels, and QoS support. Plus, they have robust security and policy enforcement, including firewall and NAC functionality. Built-in RADIUS server and LDAP/Active Directory™ integration—along with a full-featured guest management system and portal—complete the system, making it perfect for organizations of all sizes.

Access points go in easy.

SmartPath APs are available in a standard model with integrated antennas for indoor use and a hardened version with six RP-SMA connectors for flexible installation options in industrial or outdoor applications.

The APs support PoE, so you can power them through the Ethernet port or plug them into a nearby outlet. Once plugged in, each AP automatically joins the network and contacts the system's SmartPath Enterprise Management System (EMS). It's available as a cloud-based service or a standalone appliance, which enables you to manage the entire system from a single, user-friendly GUI console (for SmartPath EMS details, see the **reverse side**). Because there is no controller, the system scales from two or three APs to thousands of APs—with no hidden upgrade costs. As your needs grow, simply add additional APs.

SmartPath Enterprise Wireless

Centrally manage it via the Web or an appliance.

The SmartPath Enterprise Management System (EMS), available as a cloud-based service or as a standalone network appliance, is a GUI for centrally configuring and monitoring our APs as well as setting security and guest log-in parameters.

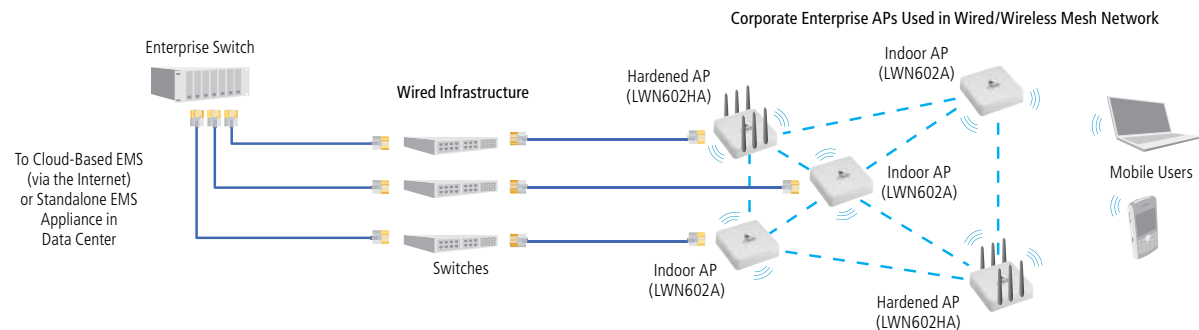
With each AP supporting multiple SSIDs, the EMS enables you to set up wireless network access by user. Keep data secure by giving guests access to the Internet while allowing only employees to connect to your internal network.

What's more, the EMS provides centralized control without being actively involved in passing traffic or making forwarding decisions. The combination of autonomous APs with centrally based management provides maximum administrative control

without creating the traffic bottlenecks seen in controller-based wireless solutions.

The cloud-based EMS is hosted within secure Tier IV SAS 70 Type II data centers, with scheduled backups and disaster recovery capabilities. The on-line management makes it easy to start small and add to your wireless network as you grow—without wasting any of your investment.

For larger networks, you may prefer to use the EMS appliance. It supports up to 2000 APs and is typically mounted in the data center. When using the appliance, you need to purchase a one-time perpetual license for each AP.



AP TECH SPECS

Authentication — 802.1X for WEP, WPA, WPA2; private PSK, unique preshared keys (PSK) for each user within (1) SSID; RADIUS, LDAP support; authentication to Active Directory™ with local credentials caching; multiple RADIUS server support (per AP, per SSID); MAC-based RADIUS authentication; (100) associated clients per radio

Security — Trusted Platform Module (TPM); WPA™ and WPA2™, 802.11i, WEP, 802.1X, PSK; VLANs, QoS, mobility policies, and security policies for each network user entrant; AES-CCMP, TKIP, RC4 (WEP only) encryption; time-of-day and day-of-week access control and SSID enabling; on-board stateful-inspection firewall policy enforcement with session state sync with neighbors; ALG support for SIP, DNS, TFTP, FTP; destination-based MAC firewall support; tunneled guest networks; cluster-wide client isolation; WPA-TKIP vulnerability protection

Rated Speed — 300 Mbps

Operating Temperature —

Indoor unit: +32 to +104° F (0 to +40° C);
Hardened unit: -4 to +130° F (-20 to +55° C)

Connectors — Indoor unit: (1) RJ-45 (10/100/1000 Mbps);
Hardened unit: (2) RJ-45 (10/100/1000 Mbps)

Power — Either PoE or direct power; optional PoE Injector (LPJ001A-T) or 100–240-VAC, 50–60-Hz universal power supply (LWN600PS-US) available

Size — Indoor unit: 2"H x 6.5"W x 6.5"D (5 x 16.5 x 16.5 cm);
Hardened unit: 1.25"H x 8.5"W x 8"D (3.2 x 21.5 x 20.3 cm)

Weight — Indoor unit: 1.75 lb. (0.8 kg);
Hardened unit: 3 lb. (1.4 kg)

Item	Code	List Price
First choose your wireless AP(s)...		
SmartPath Wireless Access Point (AP)		
Indoor (with Integrated Antennas)	LWN602A	\$849.95
Hardened (without Antennas)	LWN602HA	\$1199.95
...then select either a cloud-based management platform...		
SmartPath Enterprise Management System (EMS), Cloud-Based		
1-Year License per AP	LWN600CM-1	\$99.95
3-Year License per AP	LWN600CM-3	\$229.95
...or a standalone appliance with the required AP licenses...		
SmartPath Enterprise Management System (EMS) Appliance (Up to 2000 APs)	LWN600MA	\$2999.95
SmartPath Perpetual License for EMS Appliance (Perpetual, per Access Point)	LWN600MLA-1	\$79.95
Select the power option for your application:		
802.3at PoE Gigabit Injector, 1-Port	LPJ001A-T	\$59.95
SmartPath 30-W Power Kit with Cord, U.S.	LWN600PS-US	\$89.95
For hardened APs, order...		
SmartPath 602HA Antenna Kit (Indoor Use Only)	LWN600A-ANTK	\$99.95
◆ Includes (3) 2.4 GHz and (3) 5-GHz antennas for (1) AP.		
SmartPath 602HA Outdoor Kit	LWN600A-OUT	\$1699.95
◆ Includes (1) NEMA enclosure, (1) pole bracket, assorted hardware, (1) lightning protection device, (1) power supply, and (4) dual-band antennas for (1) AP.		

NOTE: International AP and power kit versions available.