NetGlide

A unified WiFi blanket for indoor wireless coverage for the whole building

Product Highlights

- Unique channel blanket technology providing WiFi coverage for the whole building like a single access point
- The only 802.11n system enabling full 'n' speed in both 2.4GHz and 5GHz, even with presence of legacy b/g/a devices
- Tri-Radio access point with integrated antennas
- Works in mixed 802.11 n/a/b/g environments with no loss of throughput
- MIMO 3x3 configuration
- Link resilience with AP path diversity
- Anti-breach security and built-in Rogue AP detection

Key Benefits

- Robust, wire-like connectivity with superior wireless experience
- Zero AP-to-AP handoff delay
- No RF cell planning or co-channel interference
- Converged voice, data & video, with zero-latency mobility
- Multi-channel, multi-layer WLAN in one infrastructure
- Centralized access
- Centralized power

The NetGlide WLAN, based on the unique and revolutionary channel blanket technology, makes it possible to achieve a new generation of business-class wireless infrastructure scaling from a single office to multi-building corporate campuses. NetGlide provides the only truly disruption-free introduction of maximum- performance 802.11n performance with predictable service quality.

NetGlide WLAN system reduces the complexity of RF survey and cell planning. NetGlide ultra thin APs are placed where needed for best coverage and do not require configuration. All APs use the same channel in the channel blanket architecture, and NetGlide WLAN switch coordinates the connected APS to eliminate the co-channel interference.

With all APs in the same channel, the NetGlide WLAN switch receives multiple copies of each client's transmission and chooses the best AP to transmit the reply, making the system highly resilient to RF interference and ensures the highest possible throughput.

Client devices move anywhere within the NetGlide channel blanket, without experiencing inter-AP handoffs, re-authentication, or latency, enabling seamless mobility for enterprise wireless LANs.

The NetGlide channel blanket architecture is a perfect match for the unpredictable coverage patterns of 802.11n APs, in an enterprise building, hotel, hospital, warehouse or production plant.

Overlapping coverage from adjacent ultra thin APs is not a problem. NetGlide WLAN switch coordinates media access for all of the connected APs and eliminates co-channel interference, which leads to higher performance and more stable operation under heavy user load.
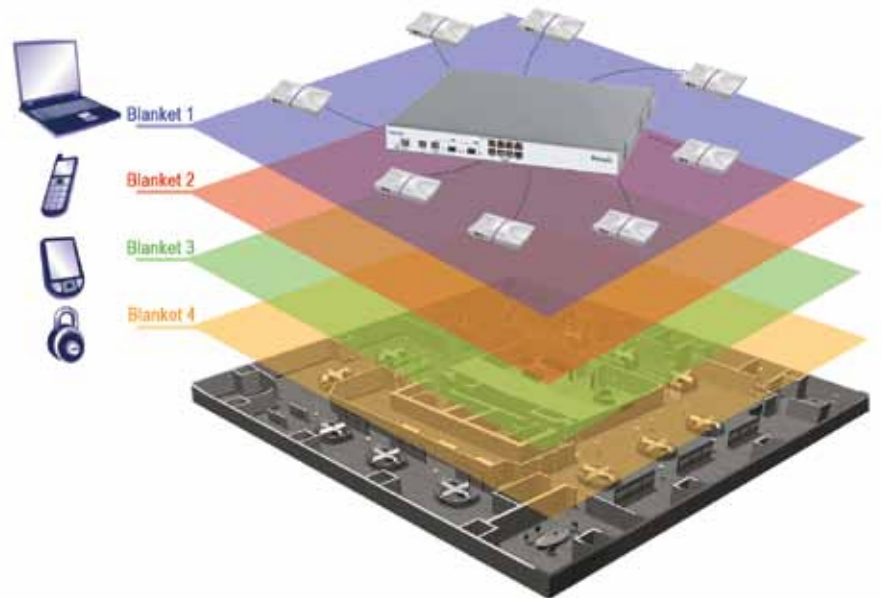
NetGlide channel blanket deployment of APs permits 'n' and legacy 'a/b/g' devices to co-exist, in either band, with full speed and throughput maintained for all.

NetGlide ultra thin APs enable true plug-and-play deployment. With no software inside, each AP requires no configuration and is completely interchangeable.

With all APs able to receive on the same channel, the NetGlide WLAN provides uplink path diversity for client transmissions, making the system immune to the variance in coverage caused by MIMO antenna technology.

The NetGlide ultra thin AP is equipped with integrated antennas and maintains full operation with 802.03af PoE power.

Specifications

WLAN Standards

WLAN	IEEE 802.11n, 2.4GHz and 5GHz IEEE 802.11g, 2.4GHz (pure mode, mixed mode) IEEE 802.11b, 2.4GHz (short/long preamble support) IEEE 802.11a, 5GHz
Ethernet	IEEE 802.3x, full/half duplex IEEE 802.3af Power over Ethernet

Security

Encryption	802.11i hardware-based encryption for: WEP-64 and WEP-128, WPA-TKIP / AES (CCMP), WPA2-TKIP / AES (CCMP)

Interfaces

WLAN Ports (to APs)	Eight (8) Gigabit Ethernet Ports
LAN Ports (Uplink to Wired LAN)	Two (2) Gigabit Ethernet RJ45/SFP Combo Ports

Spectrum

Number of simultaneous channels	Up to three simultaneous 802.11n/b/g/a channels
Operating Frequencies	2.412 – 2.472 GHz, 5.15–5.35 / 5.47-5.825 GHz

Maximum Number of Non Overlapping Channels

2.4 GHz	b/g	3 x 20MHz channels
	n	3 x 20MHz channels or 1 x 40MHz and 1 x 20MHz channels
5 GHz	a	13 x 20MHz channels
	n	13 x 20MHz channels or 9 x 40MHz channels

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
802.11n	20MHz: 6.5, 7.2, 13, 14.4, 19.5, 21.7, 26, 28.9, 39, 43.3, 52, 57.8, 58.5, 65, 72.2, 78, 86.7, 104, 115.6, 117, 130, 144.4 40Mhz: 13.5, 15, 27, 30, 40.5, 45, 54, 60, 81, 90, 108, 120, 121.5, 130, 135, 157.5, 162, 180, 216, 240, 243, 270, 300

Transmitter Power (Avg)

802.11n	17dBm (2.4GHz and 5GHz)
802.11g/b	17dBm
802.11a	17dBm

Rogue AP Detection

Infrastructure	Dedicated radio per AP
Functionality	Automated, continuous monitoring, ensures very fast detection of rogue AP (finds a rogue AP in 2 minutes average)
Additional Features	Configurable "white list" of allowed BSSIDs

Antenna Specifications

802.11n	3 x 3 MIMO - 3 Transmit and 3 Receive chains
Each Radio	Three (3) dual-band omni-directional internal antennas for diversity for each 802.11n/g/b/a radio Two (2) dual-band omni-directional internal antennas for diversity for each 802.11g/b/a radio

Regulations Approval

Safety	UL 60950-1, EN 60950-1, IEC 60950-1, ANATEL Resolution 238
EMC	FCC Part 15 class B, EN 301 489, EN 300 386, VCCI Technical Requirements, V-3/2001.04
Radio (including modular approval)	FCC Part 15 C and FCC Part 15 E, EN 300 328, EN 301 893 Japan Type Certificate: Article 2, clause 1, ANATEL Resolution 506

Physical Properties

Physical Properties	UTAP 3n Access Point	APC-8 WLAN Switch
Dimensions (W x H x D)	196 x 42 x 125 mm	441 x 44 x 371 mm
Weight	0.42 kg	3.6 kg
Installation Options	Horizontal (desktop) or Vertical (wall mount)	Rack mount (19" 1U) and desktop
Status LEDs	Link Activity, 3 x WLAN Activity (2 colors)	Power, LAN Activity, Activity on AP ports
Power	PoE (IEEE 802.3af) Power Supply (optional): 48VDC	100-240V / 5A Max, PoE to WLAN ports built in IEEE 802.af injectors

Environmental

Operational	Temperature: -5°C to +55°C (23°F to 131°F) Humidity: 0% to 95%, non-condensing	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	Temperature: -20°C to +70°C (-4°F to 158°F) Humidity: 0% to 90%, non-condensing