

# Solving the WLAN Problems of Tomorrow, Today

- Ceiling and wall mountable
- Plenum rated housing
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- 2.4 GHz and 5 GHz concurrent dual-band (NWA5123-NI)
- High-performance RF technology: Tx Beamforming and Rx Maximum Likelihood Demodulation (MLD)

The ZyXEL NWA5120 Series 802.11 a/b/g/n Unified Access Point is a highly future-proof WLAN solution perfect for growing business, hospitality and education environments. With a 2-in-1 standalone/managed AP design, users can initially use it as a standalone AP, and convert it to a controller-managed AP when Wi-Fi demand grows. The Series is designed with industry-leading technology to provide trouble-free wireless quality to lower IT overhead. The embedded antennas and signal output are fine-tuned to provide easy RF planning and maximum signal coverage. It also supports such features as dynamic channel selection, load balancing and pre-authentication for superb Wi-Fi experience.

### **Benefits**

#### **Ceiling-mount design blends into environments**

Different from traditional business routers, the slick "smoke detector" ceiling-mount design of ZyXEL NWA5120 Series provides better coverage and performance. The NWA5120 Series is a PoE AP with a multifunction design that solves all problems by offering internal as well as external antennas to enhance wireless performance and to eliminate coverage dead spots. Moreover, the signal outputs have been fine-tuned to provide easy RF planning and excellent signal coverage especially for hospitality and education environments.

The ZyXEL NWA5120 Series has been designed with plenum rating and made of non-toxic materials without hazardous emission – the safe design makes it more suitable for public indoor wireless deployments.

#### **ZyXEL ONE Network experience**

Aiming for relieving our customers from repetitive operations of deploying and managing a network, ZyXEL ONE Network is designed to simplify the configuration, management, and troubleshooting, allowing our customers to focus on the business priorities. ZyXEL ONE Network presents an easy-to-use tool, ZyXEL ONE Network Utility (ZON Utility), to realize speed network setup. ZyXEL Smart Connect allows ZyXEL networking equipment to be aware and recognize each other and further facilitating the network maintenance via one-click remote functions such as factory reset or power cycling. ZyXEL ONE Network redefines the network integration across multiple networking products from switch to Wi-Fi AP and to Gateway.



NWA5120 Series 802.11 a/b/g/n Unified Access Point





#### Effortless conversion from standalone to centrally-managed

The ZyXEL NWA5120 Series Unified APs can be configured as a fully functional standalone AP and also capable to work with Wireless LAN Controller to form a robust controller-based WLAN solution with centralized management when Wi-Fi demand grows, as well as auto AP provisioning over both LAN and WAN connections. After being installed and powered on, the APs automatically look for the Wireless LAN Controller and establish connections. Utilizing the CAPWAP protocol, connections can be established between the controller and APs without needing to change the existing LAN infrastructure.

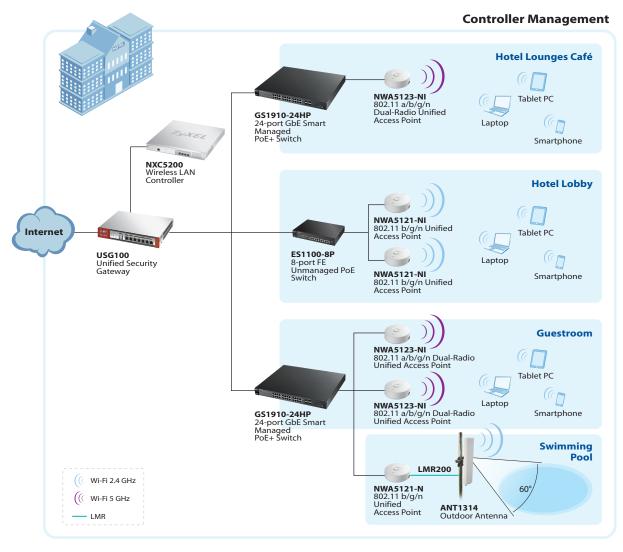
#### Easy to RF planning with the same 2.4 GHz and 5 GHz signal coverage (NWA5123-NI)

As more and more mobile or laptop devices support both 2.4 GHz and 5 GHz bands, users can choose 5 GHz as the first priority for default searching and balance heavy network loading with the 2.4 GHz band, besides, to have always on and stable connection become one of the essential elements of Wi-Fi network. The ZyXEL NWA5123-NI 802.11 a/b/g/n Dual-Radio Unified AP consists of 2.4 GHz and 5 GHz dual-band radio to match the concurrent Wi-Fi services with either frequency. The higher frequency of the 5 GHz band provides a shorter signal range compared to the 2.4 GHz band with the same transmit output power. The NWA5123-NI consist of high 5 GHz transmit output power can boost the 5 GHz signal range, providing signal coverage equal to the 2.4 GHz wireless network. Therefore, the complexity of deployment can be considerably reduced.

#### Continuous wireless services for better reliability and network quality

The ZyXEL NWA5120 Series 802.11n PoE AP features coverage-enhancing 11n technologies such as TX Beamforming, LDPC and MLD to eliminate issues of dead spots and inefficient coverage. With MLD, the NWA5120 Series boosts the Signal-to-Noise Ratio (SNR) to 3 dB for more stable wireless services and better performance. Meanwhile, TX Beamforming also eliminates dead spots by expanding the coverage with continuous, dynamic changing of signal phases. With non-stop wireless services, the NWA5120 Series provides reliable network connectivity for better business productivity.

## **Application Diagram**





# **Specifications**

Model		NWA5121-NI	NWA5121-N	NWA5123-NI
		802.11 b/g/n Unified	802.11 b/g/n Unified	802.11 a/b/g/n Dual-Radio
		Access Point	Access Point	Unified Access Point
Product name		Come		Com
		- 0	and the second	- 0
Main Design		2454		
Wireless frequency Radio		2.4 GHz	2.4 GHz	2.4 GHz & 5 GHz 2
Radio		1	I	Embedded 2x2 5 dBi/
Antenna		Embedded 2x2 7 dBi antenna	2 External 3 dBi dipole antenna	6 dBi antenna
RF Specifications				-
			802.11 b/g/n)	2.4 GHz (IEEE 802.11 b/g/n)
2.4 GHz (11 g/n)		USA (FCC): 2.412 to 2.462 GHz		USA (FCC): 2.412 to 2.462 GHz
		Europe (ETSI): 2.412 to 2.472 GHz Taiwan (TW): 2.412 to 2.462 GHz		Europe (ETSI): 2.412 to 2.472 GHz Taiwan (TW): 2.412 to 2.462 GHz
				5 GHz (IEEE 802.11 a/n)
Frequency band		-		USA (FCC): 5.15 to 5.35 GHz;
	5 GHz (11 a/n)			5.725 to 5.850 GHz Europe (ETSI): 5.15 to 5.35 GHz;
	5 GH2 (11 a/n)			5.470 to 5.725 GHz
				Taiwan (TW): 5.15 to 5.35 GHz; 5.725 to 5.850 GHz
			20 10 2 1	
	US (FCC) 2.4 GHz	20 dBm, 2 antennas	20 dBm, 2 antennas	23 dBm, 2 antennas
Max. transmit power*	US (FCC) 5 GHz	-	-	26 dBm, 2 antennas
	EU (ETSI) 2.4 GHz	17 dBm, 2 antennas	18 dBm, 2 antennas	17 dBm, 2 antennas
	EU (ETSI) 5 GHz	-	-	26 dBm, 2 antennas
		2.4 GHz: • 802.11b/g, min. up to -95 dBm • 802.11n/20 MHz, min. up to -93 dBm • 802.11n/40 MHz, min. up to -92 dBm		2.4 GHz: • 802.11b/g, min. up to -97 dBm
				• 802.11n/20 MHz, min. up to
				-93 dBm • 802.11n/40 MHz, min. up to -90
Received sensitivity				5 GHz:
				• 802.11a, min. up to -94 dBm • 802.11n/20 MHz, min. up to
				• 802.11n/40 MHz, min. up to -91 dBm
LAN				-91 dBm
Number of 10/100/100	0 Mbps I AN ports	1	1	1
PoE		Yes	Yes	Yes
PoE power draw		4 W	4 W	7 W
WLAN Security				1
		802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18,	802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18,	802.11 a/g: 1, 2, 5.5, 6, 9, 11, 12,
Support data rate		24, 36, 48 and 54 Mbps	24, 36, 48 and 54 Mbps	18, 24, 36, 48 and 54 Mbps
Support duta fute		802.11n: up to 300 Mbps in MCS15 (40 MHz; GI=400 ns)	802.11n: up to 300 Mbps in MCS15 (40 MHz; GI=400 ns)	802.11n: up to 300 Mbps in MCS15 (40 MHz; GI=400 ns)
WMM (Wi-Fi certified)		Yes	Yes	Yes
WEP		Yes	Yes	Yes
WPA/WPA2-PSK		Yes	Yes	Yes
WPA2 (Wi-Fi certified)		Yes	Yes	Yes
WPA/WPA2-Enterprise		Yes	Yes	Yes
IEEE 802.1X		Yes	Yes	Yes
Number of multiple SS	ID	8	8	16
MAC filtering		Yes	Yes	Yes
<b>RADIUS</b> authentication	ı	Yes	Yes	Yes
EAP types			TLS, TTLS, PEAP, FAST, AKA and SIM	1
Rogue AP detection		Yes	Yes	Yes
*: Max. total channel				

\*: Max. total channel



# NWA5120 Series 802.11 a/b/g/n Unified Access Point

Model Network VLANs DHCP client QoS WMM WMM power saving ZyXEL ONE Network ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Batch AP configuration     Yes     Yes     G27,152     IEEE 802.3, IEEE 802.3u     IEEE 802.3af     IEEE 802.11 a/g (OFDM/DSSS)     48/54 Mbps (QAM-64)     24/36 Mbps (QAM-16)     12/18 Mbps (QPSK)     6/9 Mbps (BPSK)     ETSI EN 300 328 V1.7.1: 11-2006     FCC Part 15.247		
VLANS DHCP client QoS WMM WMM power saving ZyXEL ONE Network ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes Yes Discovery of ZyXEL switches, APs Centralized and batch configurat IP configuration Device locating Password configuration Discover neighboring devices One-click remote management a Batch AP configuration Yes IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.3af	Yes Yes Yes and gateways* ions • IP renew • Web GUI access • One-click quick association wit cccess to the neighboring ZyXEL de • Batch AP firmware upgrade Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes Yes Yes · Device reboot · Firmware upgrade th ZyXEL AP Configurator (ZAC) evices · Batch AP profile backup Yes Yes Yes IEEE 802.3, IEEE 802.3u IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) · QAM-64 · QAM-16 · QPSK · BPSK
DHCP client QoS WMM WMM power saving ZyXEL ONE Network ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes Yes Discovery of ZyXEL switches, APs Centralized and batch configurat IP configuration Device locating Password configuration Discover neighboring devices One-click remote management a Batch AP configuration Yes IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.3af	Yes Yes Yes and gateways* ions • IP renew • Web GUI access • One-click quick association wit cccess to the neighboring ZyXEL de • Batch AP firmware upgrade Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes Yes Yes · Device reboot · Firmware upgrade th ZyXEL AP Configurator (ZAC) evices · Batch AP profile backup Yes Yes Yes IEEE 802.3, IEEE 802.3u IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) · QAM-64 · QAM-16 · QPSK · BPSK
WMM WMM power saving ZyXEL ONE Network ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes         • Discovery of ZyXEL switches, APs         • Centralized and batch configuration         • IP configuration         • Device locating         • Password configuration         • Discover neighboring devices         • One-click remote management a         • Batch AP configuration         • Batch AP configuration         IEEE 802.3, IEEE 802.3u         IEEE 802.3, IEEE 802.3u         IEEE 802.3af         IEEE 802.11 a/g (OFDM/DSSS)         • 48/54 Mbps (QAM-64)         • 24/36 Mbps (QAM-16)         • 12/18 Mbps (QPSK)         • 6/9 Mbps (BPSK)	Yes and gateways* ions • IP renew • Web GUI access • One-click quick association with access to the neighboring ZyXEL de • Batch AP firmware upgrade Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes  Device reboot Firmware upgrade Firmware upgrade TyXEL AP Configurator (ZAC)  evices  Batch AP profile backup Yes Yes Yes Yes IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.3af IEEE 802.11n (OFDM/DSSS) QAM-64 QAM-16 QPSK BPSK
WMM WMM power saving ZyXEL ONE Network ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes         • Discovery of ZyXEL switches, APs         • Centralized and batch configuration         • IP configuration         • Device locating         • Password configuration         • Discover neighboring devices         • One-click remote management a         • Batch AP configuration         • Batch AP configuration         IEEE 802.3, IEEE 802.3u         IEEE 802.3, IEEE 802.3u         IEEE 802.3af         IEEE 802.11 a/g (OFDM/DSSS)         • 48/54 Mbps (QAM-64)         • 24/36 Mbps (QAM-16)         • 12/18 Mbps (QPSK)         • 6/9 Mbps (BPSK)	Yes and gateways* ions • IP renew • Web GUI access • One-click quick association with access to the neighboring ZyXEL de • Batch AP firmware upgrade Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes  Device reboot Firmware upgrade Firmware upgrade TyXEL AP Configurator (ZAC)  evices  Batch AP profile backup Yes Yes Yes Yes IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.3af IEEE 802.11n (OFDM/DSSS) QAM-64 QAM-16 QPSK BPSK
ZyXEL ONE Network ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		<ul> <li>Discovery of ZyXEL switches, APs</li> <li>Centralized and batch configuration         <ul> <li>Device locating</li> <li>Password configuration</li> </ul> </li> <li>Discover neighboring devices         <ul> <li>One-click remote management a</li> </ul> </li> <li>Batch AP configuration         <ul> <li>Yes</li> <li>627,152</li> </ul> </li> <li>IEEE 802.3, IEEE 802.3u         <ul> <li>IEEE 802.3af</li> <li>IEEE 802.11 a/g (OFDM/DSSS)</li> <li>48/54 Mbps (QAM-64)</li> <li>24/36 Mbps (QPSK)</li> <li>6/9 Mbps (BPSK)</li> </ul> </li> <li>ETSI EN 300 328 V1.7.1: 11-2006     <ul> <li>FCC Part 15.247</li> </ul></li></ul>	and gateways* ions • IP renew • Web GUI access • One-click quick association wit access to the neighboring ZyXEL de • Batch AP firmware upgrade Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Device reboot     Firmware upgrade     Firmware upgrade     Firmware upgrade     Satch AP Configurator (ZAC)      Vices      Batch AP profile backup     Yes     Yes     Yes     T81,396      IEEE 802.3, IEEE 802.3u     IEEE 802.3af      IEEE 802.11n (OFDM/DSSS)     QAM-64     QAM-16     QPSK     BPSK
ZON Utility Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Centralized and batch configuration     IP configuration     Device locating     Password configuration     Discover neighboring devices     One-click remote management a      Batch AP configuration     Yes      IEEE 802.3, IEEE 802.3u     IEEE 802.3af      IEEE 802.31 a/g (OFDM/DSSS)     48/54 Mbps (QAM-64)     24/36 Mbps (QAM-16)     12/18 Mbps (QPSK)     6/9 Mbps (BPSK)      ETSI EN 300 328 V1.7.1: 11-2006     FCC Part 15.247	ions • IP renew • Web GUI access • One-click quick association wit ccess to the neighboring ZyXEL de • Batch AP firmware upgrade Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Firmware upgrade     th ZyXEL AP Configurator (ZAC)      evices      Batch AP profile backup          Yes          Yes          Yes          T81,396          IEEE 802.3, IEEE 802.3u          IEEE 802.3af      IEEE 802.11n (OFDM/DSSS)          QAM-64          QAM-16          QPSK          BPSK
Smart Connect Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Centralized and batch configuration     IP configuration     Device locating     Password configuration     Discover neighboring devices     One-click remote management a      Batch AP configuration     Yes      IEEE 802.3, IEEE 802.3u     IEEE 802.3af      IEEE 802.31 a/g (OFDM/DSSS)     48/54 Mbps (QAM-64)     24/36 Mbps (QAM-16)     12/18 Mbps (QPSK)     6/9 Mbps (BPSK)      ETSI EN 300 328 V1.7.1: 11-2006     FCC Part 15.247	ions • IP renew • Web GUI access • One-click quick association wit ccess to the neighboring ZyXEL de • Batch AP firmware upgrade Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Firmware upgrade     th ZyXEL AP Configurator (ZAC)      evices      Batch AP profile backup          Yes          Yes          Yes          T81,396          IEEE 802.3, IEEE 802.3u          IEEE 802.3af      IEEE 802.11n (OFDM/DSSS)          QAM-64          QAM-16          QPSK          BPSK
Management Features ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		One-click remote management a     Batch AP configuration     Yes     Yes     G27,152     IEEE 802.3, IEEE 802.3u     IEEE 802.3af     IEEE 802.3af     IEEE 802.3af     IEEE 802.4Mbps (QAM-64)     · 24/36 Mbps (QAM-64)     · 12/18 Mbps (QPSK)     · 6/9 Mbps (BPSK)     ETSI EN 300 328 V1.7.1: 11-2006     FCC Part 15.247	Batch AP firmware upgrade     Yes     Yes     627,152     IEEE 802.3, IEEE 802.3u     IEEE 802.3af     IEEE 802.11b (DSSS)     • 5.5/11 Mbps (CCK)     • 2 Mbps (DQPSK)	Batch AP profile backup Yes Yes Res Res Res Res Res Res Res Res Res R
ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Batch AP configuration     Yes     Yes     G27,152     IEEE 802.3, IEEE 802.3u     IEEE 802.3af     IEEE 802.11 a/g (OFDM/DSSS)     48/54 Mbps (QAM-64)     24/36 Mbps (QAM-16)     12/18 Mbps (QPSK)     6/9 Mbps (BPSK)     ETSI EN 300 328 V1.7.1: 11-2006     FCC Part 15.247	Batch AP firmware upgrade     Yes     Yes     627,152     IEEE 802.3, IEEE 802.3u     IEEE 802.3af     IEEE 802.11b (DSSS)     • 5.5/11 Mbps (CCK)     • 2 Mbps (DQPSK)	Batch AP profile backup Yes Yes Res Res Res Res Res Res Res Res Res R
ZAC CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.1a/g (OFDM/DSSS) • 48/54 Mbps (QAM-64) • 24/36 Mbps (QAM-16) • 12/18 Mbps (QPSK) • 6/9 Mbps (BPSK) ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes Yes 781,396 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
CLI Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.1a/g (OFDM/DSSS) • 48/54 Mbps (QAM-64) • 24/36 Mbps (QAM-16) • 12/18 Mbps (QPSK) • 6/9 Mbps (BPSK) ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	Yes Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes Yes 781,396 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
Others Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11 a/g (OFDM/DSSS) • 48/54 Mbps (QAM-64) • 24/36 Mbps (QAM-16) • 12/18 Mbps (QPSK) • 6/9 Mbps (BPSK) ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	Yes 627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	Yes 781,396 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
Plenum rating MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11 a/g (OFDM/DSSS) • 48/54 Mbps (QAM-64) • 24/36 Mbps (QAM-16) • 12/18 Mbps (QPSK) • 6/9 Mbps (BPSK) ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	781,396 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
MTBF (hr) Standard Compliance Ethernet PoE Radio modulation Certification Radio		627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11 a/g (OFDM/DSSS) • 48/54 Mbps (QAM-64) • 24/36 Mbps (QAM-16) • 12/18 Mbps (QPSK) • 6/9 Mbps (BPSK) ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	627,152 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	781,396 IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
Standard Compliance Ethernet PoE Radio modulation Certification Radio		IEEE 802.3, IEEE 802.3u           IEEE 802.3af           IEEE 802.11 a/g (OFDM/DSSS)           • 48/54 Mbps (QAM-64)           • 24/36 Mbps (QAM-16)           • 12/18 Mbps (QPSK)           • 6/9 Mbps (BPSK)           ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	IEEE 802.3, IEEE 802.3u IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
Ethernet PoE Radio modulation Certification Radio		IEEE 802.3af           IEEE 802.11 a/g (OFDM/DSSS)           • 48/54 Mbps (QAM-64)           • 24/36 Mbps (QAM-16)           • 12/18 Mbps (QPSK)           • 6/9 Mbps (BPSK)           ETSI EN 300 328 V1.7.1: 11-2006           FCC Part 15.247	IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
PoE Radio modulation Certification Radio		IEEE 802.3af           IEEE 802.11 a/g (OFDM/DSSS)           • 48/54 Mbps (QAM-64)           • 24/36 Mbps (QAM-16)           • 12/18 Mbps (QPSK)           • 6/9 Mbps (BPSK)           ETSI EN 300 328 V1.7.1: 11-2006           FCC Part 15.247	IEEE 802.3af IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	IEEE 802.3af IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
Radio modulation Certification Radio		IEEE 802.11 a/g (OFDM/DSSS) • 48/54 Mbps (QAM-64) • 24/36 Mbps (QAM-16) • 12/18 Mbps (QPSK) • 6/9 Mbps (BPSK) ETSI EN 300 328 V1.7.1: 11-2006 FCC Part 15.247	IEEE 802.11b (DSSS) • 5.5/11 Mbps (CCK) • 2 Mbps (DQPSK)	IEEE 802.11n (OFDM/DSSS) • QAM-64 • QAM-16 • QPSK • BPSK
Radio		FCC Part 15.247		ETSI EN 300 328 V1.7.1: 11-2006
		FCC Part 15.247		ETSI EN 300 328 V1.7.1: 11-2006
EMC	Radio			
	ЕМС		EN 301 489-1 V1.8.1: 04-2008 EN 301 489-17 V2.1.1: 05-2009 EN55022: 2010 EN55024: 2010 EN61000-3-2/-3 FCC Part 15.107 BSMI CNS13438.99; CNS14336: 99	
Safety		EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 IEC 60950-1: 2005 BSMI		EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 IEC 60950-1: 2005 BSMI
Power Requirement				
Power supply		12 V DC, 1 A	12 V DC, 1 A	12 V DC, 1 A
Physical Specifications				
	nensions (DxH)(mm/in.)	130 x 130 x 54.5/ 5.12 x 5.12 x 2.17	130 x 130 x 54.5/ 5.12 x 5.12 x 2.17	130 x 130 x 54.5/ 5.12 x 5.12 x 2.17
Wei	ght (kg/lb.)	0.23/0.51	0.23/0.51	0.25/0.55
	nensions (DxH)(mm/in.)	282 x 207 x 71/ 11.10 x 8.15 x 2.80	282 x 207 x 71/ 11.10 x 8.15 x 2.80	282 x 207 x 71/ 11.10 x 8.15 x 2.80
Wei	ght (kg/lb.)	0.61/1.34	0.61/1.34	0.63/1.39
Included accessories		Power adapter	• Wall/ceiling mou	nt plate
<b>Environmental Specificatio</b>	ons			
Operating Tem	perature	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F
• • • •	nidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage Tem	perature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F
environment Hun	iperature	-30 C t0 /0 C/-22 F t0 138 F		





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