














Wireless LAN
Quick Sales Guide

2011



Wireless LAN Quick Finder

Small Business	<ul style="list-style-type: none"> • Web Managed • SNMP Management 	<ul style="list-style-type: none"> • Extended Range • 2.4 GHz Support 	NWA1100 
Small and Medium-Sized Business	<ul style="list-style-type: none"> • CAPWAP Supported • Centralised Wireless Management 	<ul style="list-style-type: none"> • Hybrid AP: Controller/Managed AP/ Stand-alone AP • 2.4/5.4 GHz Support 	NWA-3160 
		<ul style="list-style-type: none"> • Hybrid AP: Controller/Managed AP/ Stand-alone AP • Extended Range 	NWA-3163 
		<ul style="list-style-type: none"> • Hybrid AP: Controller/Managed AP/ Stand-alone AP • 802.11n Support 	NWA-3166 
		<ul style="list-style-type: none"> • Hybrid AP: Controller/Managed AP/ Stand-alone AP • Dual Radio Support 	NWA-3500 
		<ul style="list-style-type: none"> • Hybrid AP: Controller/Managed AP/ Stand-alone AP • Dual Radio Support • Outdoor Extension 	NWA3550 
Small and Medium-Sized Enterprise	<ul style="list-style-type: none"> • Critical Roaming • Centralised Application Management 	Wireless LAN Controller	NXC5200 
		Managed AP	NWA5160N 
Hospitality	HotSpot Gateway	G-4100 v2 	
		N4100 	
	Service Gateway	VSG-1200v2 	

Key Features

Model Names	Description	Typical Application	Key Features
NWA1100	Web-Managed AP	Secure and reliable WLAN connectivity for small to medium businesses	<ul style="list-style-type: none"> • Extended range (802.11b/g) • High-power design to extend Wi-Fi coverage • WEP/WPA/WPA2 support to ensure complete network protection • Various management interfaces are provided to merge the device into existing business networks
NWA-3160	Hybrid AP	World's first multi-role AP for reliable, secure and flexible deployment	<ul style="list-style-type: none"> • Single radio (802.11a/b/g) • Secured tunnel for communication between controller and managed AP • Auto channel assessment • Enterprise-class access point functionalities • Plenum rating
NWA-3163	Hybrid AP	Optimised design for reaching out the Wi-Fi service field	<ul style="list-style-type: none"> • Extended range (802.11b/g) • Wi-Fi Multimedia (WMM) + Auto Traffic Classifier (ATC) • Wi-Fi WPA2 certified • Multiple SSID with pre-defined VoIP, guest SSID • Powerful and secure management
NWA-3166	Hybrid AP	Advanced bandwidth and converge with flexible scalability	<ul style="list-style-type: none"> • Single radio (802.11a/g/n) • Draft IEEE 802.11n (2.0) support and Wi-Fi a/g/n certification • Centralized configuration manage up to 24 WLAN access points • Wi-Fi WPA2-certified and secured tunnel for communication between controller and managed AP • Multiple SSID with pre-defined VoIP, guest SSID • Plenum rating enclosure and flexible installation
NWA-3500	Hybrid AP	Concurrent 2.4 & 5 GHz Wi-Fi convergence for enterprise applications	<ul style="list-style-type: none"> • Dual radio support • Wi-Fi Multimedia (WMM) + Auto Traffic Classifier (ATC) • Wi-Fi WPA2 certified • Multiple SSID with pre-defined VoIP, guest SSID • Powerful and secure management
NWA3550	Hybrid AP	Outdoor AP to extend the Wi-Fi coverage	<ul style="list-style-type: none"> • Dual radio (802.11a&g) • Configurable dual-radio with a variety external antenna solutions • Featured with WDS function for bridging separate LAN areas together • IP-66 compliant casing and able to protect from UV exposure • 802.3af support along with packaged PSE for easy installation to administrators • WEP/WPA/WPA2 supported to ensure complete network protection
NXC5200 (WLAN Controller) & NWA5160N (Managed AP)	Wireless LAN Controller System	Unique interference-free architecture for high-density deployment	<ul style="list-style-type: none"> • Manage up to 240 APs with granular access control • Central WLAN management on both configurations and data • Flexibility supporting both distributed and tunneled data forwarding • Strongest standard-based wireless security — WPA/WPA2 and AES encryption • Built-in firewall • Built-in wireless intrusion detection, prevention and Anti-Virus • Web authentication support for guest networks (captive portal)
G-4100 v2	HotSpot Gateway	Wi-Fi enabled HotSpot gateway	<ul style="list-style-type: none"> • 802.11g • Integrated HotSpot services • Scalable user authentication and accounting • Rich networking features • Customized login page, advertisement URL links and "walled garden" features
N4100	HotSpot Gateway	New generation of HotSpot gateway with 802.11n standard support	<ul style="list-style-type: none"> • The first 802.11n HotSpot AAA gateway in market • Unique ticket printer integration for user's easy connection • IP Plug & Play for zero configuration • Various authentication bases including RADIUS server, local user, and pop3
VSG-1200v2	Service Gateway	AAA and PMS integratable Internet service gateway	<ul style="list-style-type: none"> • PMS integration • RADIUS authentication/accounting • Time-based billing (billing by minute, hour, day, week, etc) • SSL secure user login process • VPN pass through (IPSec/PPTP/L2TP)

Products shown here are subject to be available depending on regions.

Wireless LAN Feature Matrix


Model Name	Wireless LAN Access Points 1000 Series	Wireless LAN Access Points 3000 Series					Wireless LAN Controller Series & Wireless LAN Access Points 5000 Series	
	NWA1100	NWA-3160	NWA-3163	NWA-3166	NWA-3500	NWA3550	NWA5160N (Managed AP)	NXC5200 (Wireless LAN Controller)
Main Design								
Wireless Technology	802.11b/g	802.11a/b/g	802.11b/g	802.11n Draft 2.0	802.11a&g	802.11a&g	802.11a/g/n	-
Radio	1	1	1	1	2	2	1	-
High Power*1	Yes	-	Yes	-	-	-	-	-
Number of Antenna	2	2	2	2T3R MIMO	2	2 N-type Connectors*2	2T3R MIMO	-
LAN & WAN								
Number of 10/100M LAN	1	1	1	1	1	1	-	-
Number of 10/100/1000M LAN	-	-	-	-	-	-	1	4*3
PoE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
PoE Power Draw	7.2 W	6.5 W	6.9 W	7.4 W	7.3 W	16.2 W	8 W	-
WLAN Features								
Maximum Net Throughput	Up to 25 Mbps	Up to 33 Mbps	Up to 33 Mbps	Up to 110 Mbps	Up to 33 Mbps	Up to 33 Mbps	Up to 120 Mbps	-
WMM (Wi-Fi Certified)	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes
WEP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA/WPA2-PSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security Features								
Rogue AP Detection	-	Yes	Yes	Yes	Yes	Yes	-	Yes
Multiple SSID	-	Yes	Yes	Yes	Yes	Yes	-	Yes
Anti-Virus	-	-	-	-	-	-	-	Yes
Firewall	-	-	-	-	-	-	-	Yes
Intrusion Detection & Prevention	-	-	-	-	-	-	-	Yes
RADIUS Authentication	-	Yes	Yes	Yes	Yes	Yes	-	Yes
Microsoft AD Authentication	-	-	-	-	-	-	-	Yes
LDAP Authentication	-	-	-	-	-	-	-	Yes
Access Control								
Policy Setting per User	-	-	-	-	-	-	-	Yes
Policy Setting per SSID	-	-	-	-	-	-	-	Yes
Customizable Web Login Page	-	-	-	-	-	-	-	Yes
WLAN Management								
Controller Mode	-	Yes	Yes	Yes	Yes	Yes	-	-
Managed AP Mode	-	Yes	Yes	Yes	Yes	Yes	Yes	-
Others								
Plenum Rating	-	Yes	Yes	Yes	-	-	Yes	-

*1: Factory default is configured to meet region regulatory

*2: Antenna is not embedded and various external antennas are separately sold

*3: Default: 4-port RJ-45 GbE with expansion slot for 4-port RJ-45/SFP GbE

Product at a Glance

Model Name	Wireless Service Gateway Series		
	VSG-1200v2	G-4100 v2	N4100
Main Design			
Wireless Technology	-	802.11g	802.11n
Number of 10/100M LAN/Switch	1	4	4
WAN	1	1	1
PoE	-	Yes	-
PoE Power Draw	-	6 W	-
WLAN Features (G-4100 v2 and N4100 only)			
Number of Antenna	-	2	2T3R MIMO
Maximum Throughput	-	22 ~ 24 Mbps	150 Mbps
WEP	-	Yes	Yes
WPA/WPA2-PSK	-	Yes	Yes
WPA/WPA2-Enterprise	-	Yes	Yes
Other Features			
Built-in Authentication	Yes	Yes	Yes
RADIUS Authentication Support	Yes	Yes	Yes
IP Plug-and-play	Yes	Yes	Yes
Layer-2 Isolation	Yes	Yes	Yes
Customization Log-in Page	Yes	Yes	Yes
Max. Concurrent User	250	100	100 (upgradable to 200)
PMS Integration	Yes	-	-
Ticket Printer — SP300E 	<ul style="list-style-type: none"> - Button x 3 - Input: 5 V DC, 2.5 A - Paper Width: 58 (+0/-1) mm - Paper length (max.): 50 meters - Support 802.3af Power over Ethernet 		

Glossary

CAPWAP

Control And Provisioning of Wireless Access Points (CAPWAP) is an Internet Engineering Task Force (IETF) protocol allowing multiple wireless access points to be managed by a single controller access point.

Hybrid AP

Hybrid Wireless Access Point is a wireless access point technology capable of making wireless AP to switch between different roles within Autonomous Architecture and Centralized Architecture. With Hybrid AP technology, one single wireless access point can act as a Stand Alone AP (Fat AP), a Thin AP (Managed AP) or even an Access Controller (AC)

WMM

Wi-Fi MultiMedia (WMM) is a part of the IEEE 802.11e QoS enhancement to the Wi-Fi standard that ensures quality of service for multimedia applications in wireless networks.

WEP

WEP (Wired Equivalent Privacy) encrypts data transmitted between wired and wireless networks to keep the transmission private.

WPA

WPA (Wi-Fi Protected Access) encrypts data transmitted between wired and wireless networks to keep the transmission private.

WPA2

WPA2 (IEEE 802.11i) is a wireless security standard that defines stronger encryption, authentication and key management than WPA.

Accessories

Antenna

Model	EXT-106	EXT-108	EXT-109	EXT-114	EXT-118	ANT2206	ANT3108	ANT3218
Product Picture								
Space	Indoor	Outdoor	Outdoor	Outdoor	Outdoor	Indoor	Outdoor	Outdoor
Frequency Band (MHz)	2400 ~ 2500	2400 ~ 2500	2400 ~ 2500	2400 ~ 2500	2400 ~ 2500	2400 ~ 2500	4900 ~ 5875	4900 ~ 5875
Gain	6 dBi	8 dBi	9 dBi (peak)	14 dBi	18 dBi	6 dBi	8 dBi	18 dBi
VSWR	1.5:1 Max	2.0:1 Max	1.5:1 Max	1.5:1 Max	1.5:1 Max	2.0:1 Max	2.0:1 Max	2.0:1 Max
Polarisation	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical
HPBW/Horizontal	70°	360°	65°	30°	15°	65°	50°	360°
HPBW/Vertical	70°	15°	60°	30°	15°	75°	50°	20°
Connector	RP SMA	N type jack	N type jack	N type female	N type female	RP SMA	N type female	N type jack
Temperature	0°C to 40°C	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-10°C to 55°C	-40°C to 80°C	-40°C to 80°C
Weight	110 g	337 g	107 g	407 g	1.6 kg	110 g	206 g	640 g
Dimensions (mm)	118 x 86 x 76	f 19 x 250	114 x 114 x 40	200 x 200 x 50	360 x 360 x 16	76 x 86 x 118	f 20 x 260	210 x 210 x 73

Cable

Product	LMR 200	LMR 400	EXT-300
Product Picture			
Specifications	RP-SMA plug to N-plug	N-plug to N-plug	Jumper Cable & Surge Arrestor

Others

Product	Ceiling Mounting Kit
Product Picture	
Specifications	For NWA-3160, NWA-3163, NWA-3166

Wireless LAN License

Feature	For	Please Order
Concurrent User Scalability The N4100 User Scalability License is a service that increases the number concurrent users to as many as 200.	N4100	iCard/E-iCard 100 USER N4100
Managed AP Scalability The NXC5200 Managed AP License is a service that enables the flexibility to increase the number of 5000 Series WLAN APs in service. The maximum number of managed APs supported is 240.	NXC5200	iCard/E-iCard 12 AP NXC5200 iCard/E-iCard 48 AP NXC5200
Intrusion Detection and Prevention (IDP) The NXC5200 Intrusion Detection/Prevention service is an easy-to-manage, signature-based feature that mitigates threats from the ever-evolving attacks and exploits.	NXC5200	iCard/E-iCard 1 YR IDP NXC5200 iCard/E-iCard 2 YR IDP NXC5200
Anti-Virus (AV) The NXC5200 Anti-Virus service is an easy-to-manage, signature-based feature that stops virus/spyware from entering your network.	NXC5200	iCard/E-iCard 1 YR ZyXEL AV NXC5200 iCard/E-iCard 2 YR ZyXEL AV NXC5200 iCard/E-iCard 1 YR Kaspersky AV NXC5200 iCard/E-iCard 2 YR Kaspersky AV NXC5200

For more product information, visit us on the web at www.ZyXEL.com