

ADSL2/2+ 4 ports Switch 11N WiFi Router

ASW915N



CastleNet's ASW915N is a highly integrated device which enables ADSL2+, 11N WLAN, Router, Switch, and File server together. It is positioned to enhance the user's triple play broadband experience with excellent QoS and traffic management. This new generation of platforms not only eases the deployment of DSL-based ADSL2+ but also provides new opportunities for the service provider to derive additional value from the emerging IP Video service. The Draft 2.0 IEEE802.11N solution of ASW915N can take advantage of the high throughput and extended range with MIMO core technology. ASW915N adopts CastleNet easy to use web-GUI management interface. Its user friendly interface will amaze you with total difference experience. ASW915N also supports TR-069 which enables central management from the central offices and benefit the ISP much.

Specification / Data Protocol

Physical Interfaces

One ADSL port for WAN
 Four 10/100 Mbps Fast Ethernet ports for LAN
 IEEE 802.11 b/g/n Wireless AP with WPS auto setup
 Two antennas built-in for wireless wide coverage
 One USB 2.0 host port for USB mass storage connector

ADSL Compliance

G.994
 G.992.1 (G.dmt) - Annex A and B
 G.992.2 (G.lite) - Annex A
 ANSI T1.413
 G.992.3 (ADSL2), Annex A, B, L, and M
 G.992.5 (ADSL2+), Annex A, B, and M

ATM protocols

Up to 16 PVCs
 OAM F4/F5 loop back
 Adaptation Layers AAL5, AAL2 and AAL0 are supported.

PPP support

PPP over ATM PVC (RFC 2364&RFC1577)
 PPP over Ethernet (RFC2516)
 Multiple PPPoE sessions on single PVC
 PPPoE pass through
 PAP, CHAP, MS-CHAP authentication supported

Networking Stack

NAT Static Port Mappings, NAT/NAPT

Bridging IEEE 802.1d Bridge

Routing Static route, RIP v1 / v2

Multicasting

IGMP Proxy v1/v2/v3, IGMP snooping v1/v2

Management

SNTP, DDNS, UPnP, HTTP, FTP, TFTP, Telnet, SSH, SNMP,
 TR-069, DHCP client/server/relay

Firewall / Security

SPI (Stateful Packet Inspection) Firewall
 Intrusion alert
 Application layer gateway for H.323, SIP, IPSec/L2TP/PPTP, etc
 Mac/IP/TCP/interface Filtering
 Denial of Service (DOS)
 Advanced DMZ
 IPSEC / PPTP Pass through

Quality of Service (QoS)

ATM QoS
 CBR, rt-VBR, nrt-VBR, UBR-with-PCR, UBR
 IP/Bridge/802.1P QoS



Features

- Comply with ITU ADSL, ADSL 2 and ADSL2+ standards
- Compliant to DSL Forum TR-048, TR-067 and TR-100 Interoperability Test
- Feature-Rich TR-069 supports Remote Registration / Remote Authentication / Remote Configuration
- Complete solution for integration of ADSL, Router, Switch, and 11N Draft 2.0 WLAN
- Advanced MIMO technology provides enhanced wireless speed/range and wide coverage area
- WPS support for easy WLAN client setup
- Easily expands network coverage using compatible WDS-enabled AP
- Improves on the experience of user for audio, video and voice applications by QoS configuration
- Easy to use file server for mass storage file sharing
- Security supports WPA/WPA2-PSK, & 64/128-bit WEP Encryption
- Remote / Local configuration & management through Web / Telnet configuration & management
- Three levels access account management
- Support Universal Plug and Play (UPnP)
- Device management access control based on source IP addresses and incoming interfaces

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Wireless Specification

Standards:	IEEE 802.11b/g/n for wireless LAN
Frequency Band:	2.400 ~ 2.4835 GHz ISM band
Modulations:	
802.11n:	OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11g:	OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11b:	CCK (11 Mbps, 5.5 Mbps) DQPSK (2 Mbps) DBPSK (1 Mbps)
Data Rate:	
	11 b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps
	11n Draft 2.0:
	20MHz BW: 13, 26, 39, 52, 78, 104, 117, 130 Mbps
	40MHz BW: 27, 54, 81, 108, 162, 216, 243, 270, 300 Mbps
Encryption:	Hardware-based IEEE 802.11i encryption /decryption engine, Includes 64-bit/128-bit WEP, TKIP, 802.1x, WPA/WPA2 and AES
Operating Range:	
	Open space: 100m ~ 300m
	Indoor: 35m ~ 100m

Ordering Information	
Models	Description
ASW915N	ADSL 2/2+ modem/router with 4-port switch and 802.11b/g/n integration

*This brochure is a preliminary version for the customer comment and reference. The specification could be modification without prior notice.

**CastleNet Technology Inc.**No. 64, Chung-Shan Rd. Tu-Cheng City, Taipei 236
Taiwan.

Tel: 886-2-2267-3858 Fax: 886-2-2267-3866

E-mail: inquiry@castlenet.com.tw

<http://www.castlenet.com.tw>